

### **UNITED STATES MARINE CORPS**

MARINE CORPS AIR STATION BEAUFORT, SOUTH CAROLINA 29904-5001

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July 2, 2019

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SC DHEC - Bureau of Land & Waste Management

SCDHEC-BLWM

Attn: Lisa Appel 2600 Bull Street

Columbia, South Carolina 29201

Dear Ms. Appel:

Subject: Draft Final Memorandum Per- and Polyfluoroalkyl

Substances Preliminary Assessment - Areas Recommended

for NFA, MCAS Beaufort, Beaufort, South Carolina

As per South Carolina R.61-79.270.11 and 270.30(k), I certify under penalty of law that the above-subject report and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Christopher L. Vaigneur Natural Resources and Environmental Affairs Officer

Environmental Affairs Office: By Direction of the

Commanding Officer



# **TRANSMITTAL**



TO:	South Carolina Department of Health and Environmental				DATE: July 8, 2019 ontrol			
	Division of Waste Management				Certified Mail			
	Bureau of Land and Waste Manageme			ent	☐ Airmail			
	2600 Bull Street					Courier/Messenger		
Columbia, South Carolina 29201					☐ FAX			
(803) 898-0366					Federal Express/UPS			
ATTE	ENTIC	Ms. Lisa App	el					
SUB	JECT	SITE:	Installation Marine Cor Beaufort, S	ps Air Stat		rt		
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Сору	/ To:	Kathryn Butler		included	included	Ву:	Shawn Dolan	
	-	NAVFAC MIDLAN	Т	0	2	_	Ph: 843-302-8725	
	=	Bryan Beck NREAO		1	1	_	shawn.dolan@aecom.com	
	_	Craig Ehde CDM-AECOM Mul Internal	timedia JV	0	1	_		
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DRAFT FINAL
PER- AND POLYFLUOROALKYL SUBSTANCES
PRELIMINARY ASSESSMENT
AREAS RECOMMENDED FOR NFA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SOUTH CAROLINA

Revision: 0 Prepared for:



Department of the Navy Naval Facilities Engineering Command, Mid-Atlantic 9324 Virginia Avenue Norfolk, Virginia 23511-3095

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Department of the Navy Naval Facilities Engineering Command, Mid-Atlantic 9324 Virginia Avenue Norfolk, Virginia 23511-3095

Prepared by:



CDM - AECOM Multimedia Joint Venture 10560 Arrowhead Drive, Suite 500 Fairfax, Virginia 22030

Contract Number: N62470-14-D-9016

CTO 18F4605

**July 2019** 



# **Draft Final Memorandum**

Date: July 8, 2019

To: Ms. Lisa Appel, SCDHEC – Project Manager

From: Shawn Dolan, PG, CDM-AECOM – Project Manager

Elizabeth Maurer, CDM-AECOM - Project Geologist

Contract No.: N62470-14-D-9016, CTO 18F4605

Subject: Per- and Polyfluoroalkyl Substances Preliminary Assessment

Areas Recommended for NFA, MCAS Beaufort

Distribution: Bryan Beck, NAVFAC MIDLANT – Project Manager

Craig Ehde, MCAS Beaufort NREAO Chris Vaigneur, MCAS Beaufort NREAO

### 1. INTRODUCTION

The purpose of this technical memorandum (memo) is to present information compiled as part of a site wide Preliminary Assessment (PA) of per- and polyfluoroalkyl substances (PFAS) at the Marine Corps Air Station (MCAS) Beaufort, South Carolina. This work has been awarded under Contract Task Order (CTO) N4008518F4605 of the Indefinite Delivery, Indefinite Quantity (IDIQ) Multimedia Environmental Compliance Contract (Contract No. N62470-14-D-9016).

Research and investigations to support this document began in April 2018 and extended through March 2019. A records search was initiated in April 2018, during which time AECOM conducted a record review and interviewed MCAS Beaufort personnel to document historic and current fire training exercises, historic and current use of aqueous film-forming foam (AFFF) containing PFAS, and potential use and storage of other materials containing PFAS.

As a result of these efforts, 24 areas within MCAS Beaufort are recommended for no further action (NFA) based on a lack of evidence regarding the presence or release of materials containing PFAS. Site-specific conceptual site models (CSMs) for each area/building recommended for NFA are presented in this memo. Table 1 provides a comprehensive list of areas suggested for NFA with key elements of each CSM, including details on the potential source for PFAS contamination, years of operation, and justification for NFA recommendation. Figure 1 provides a plan view of MCAS Beaufort with these areas shown.

Thirty-two areas/buildings have been identified to consider for assessment of PFAS impacts. CSMs for areas recommended for assessment are presented in the forthcoming Per- and Polyfluoroalkyl Substance Preliminary Assessment (PA) Report prepared by CDM-AECOM.



### 1.1 PA OBJECTIVES

The MCAS Beaufort PA for PFAS is part of a Navy-wide Installations assessment of potential historical sources of PFAS. The objectives of this PFAS PA of MCAS Beaufort are to:

- Identify and catalog all potential or actual PFAS sources (see list below),
- Eliminate from further consideration those areas where there is no evidence of a PFAS
  release or suspected release and document the rationale for their elimination (presented
  in this memorandum),
- Identify areas requiring further PFAS investigation,
- Identify receptors and migration pathways (both on and off the facility),
- Determine whether an emergency response action is warranted because of current complete exposure pathways (e.g. on-Base or off-Base drinking water source within one-mile downgradient of potential source area), and
- Set priorities for a base-wide Site Inspection (SI).

To accomplish these objectives, the following activities have been completed:

- A review of existing information to identify and characterize potential PFAS releases.
- A review of existing information to identify potential off-base receptors within 1 mile of the facility boundary (note that this is less extensive than the study area defined in USEPA's PA Guidance, but will be expanded if necessary in later project phases if complete pathways beyond 1 mile are identified).
- Interviews with relevant site personnel to validate and verify data collected during the data review, and to provide supplemental information.
- A site reconnaissance of the facility to identify any evidence of PFAS releases and potential receptors and migration pathways, to identify all areas of concern, and to fill data gaps identified in the data review and interviews.
- Identify any need for initiation of a rapid response drinking water investigation in accordance with Navy policy (DASN June 2016).

### 1.2 PFAS BACKGROUND

PFAS have been identified by the U.S. Department of Defense (DoD) and the United States Environmental Protection Agency (USEPA) as "emerging contaminants". Emerging



contaminants can be broadly defined as a contaminant that: has a reasonably possible pathway to enter the environment; presents a potential unacceptable human health or environmental risk; and does not have regulatory standards based on peer-reviewed science, or the regulatory standards are evolving due to new science, detection capabilities, or pathways (DoD, 2009). PFAS are of environmental concern because of their persistence in the environment and in organisms, their migration potential in aqueous systems (e.g., groundwater), their historically widespread use in commercial products, and their possible health effects at low levels of exposure. PFAS are anthropogenic compounds with multiple strong carbon-fluorine bonds.

### 1.2.1 GENERAL USES OF PFAS

The chemical properties of PFAS make them useful for many commercial products because they are heat resistant and can repel oil, grease, and water. PFAS have been manufactured for use in a wide variety of products including fire-fighting foam, non-stick cookware, fiber and fabric stain protection, food packaging, and personal care products. The pervasive use of PFAS in commercial and industrial products has led to the discovery of PFAS in soil, air, and groundwater worldwide.

### 1.2.2 KEY PFAS SOURCES AT NAVAL INSTALLATIONS

PFAS have been used in a variety of military applications, including as a component of AFFF, which was routinely used at fire-fighting training areas (FTAs) and firefighting equipment test areas. In addition, current and historical AFFF storage and transfer areas are of potential concern for release to the environment. As such, identification of areas where AFFF was released to the environment, either as repeated small releases or as a significant one-time release, is key to determining potential PFAS sources to environmental media.

PFAS from AFFF used in firefighting, firefighting training, and fire suppression systems are considered to have the greatest potential for release of PFAS to the environment in terms of mass/concentration at DON installations. Other potential sources of PFAS to the environment include operations wastes (e.g., from chromium electroplating), historical on-site land disposal areas/landfills of PFAS-containing materials, waste water treatment sludges and effluents, etc. Areas of interest for this PFAS PA include those where AFFF may have been applied, released, or stored. These include current and former fire training areas, equipment test and cleanout areas, buildings with fire-fighting infrastructure (e.g., hangars, AFFF storage/handling areas, pump houses, etc.), unplanned release areas (e.g., crash sites), and fire suppression systems located at fuel storage area(s).



### AFFF IN FIRE-FIGHTING TRAINING AND FIRE SUPPRESSION

AFFF containing PFAS was developed in the 1960s for use on Class B fires (i.e., fires in flammable liquids or vapors), and was put into routine use by the early 1970s. In November 1969, a military specification (MIL SPEC) was issued that described characteristics which AFFF needed to demonstrate in order to be used by the military, including a requirement for formulations containing PFAS. As such most AFFF used at military installations after the 1970's likely included some combination of PFAS.

Typically, AFFF concentrate was proportionally mixed into water lines using in-line eductors or other proportioning devices to create the necessary foam solution ranging from 3% to 6% of the concentrate. Class A fire-fighting foams were used to extinguish wood and grass fires, and do not contain PFAS. Therefore, Class A fire-fighting foams are not a concern for this investigation.

### **ELECTROPLATING**

Electroplating, specifically hard chromium plating, is an industrial activity where PFAS-containing mist suppressants may have been used. Electroplating consists of creating an electrolytic cell that enables a thin layer of metal to be deposited onto an electrically conductive metal surface. PFAS were sometimes used during the chromium electroplating process as a surfactant in chromic acid baths. As a surfactant, PFAS lowered the surface tension (adhesion of materials) by creating a thin, foamy layer on the surface of the chrome bath for mist-suppression. This mist-suppressant reduced the formation of airborne chromium aerosols during the plating process, which are known to be carcinogenic and allergenic. Areas where non-chromium electroplating operations were carried out would not be expected to have used PFAS-containing mist suppressants.

At MCAS Beaufort, former electroplating operations included cadmium plating. According to the MCAS Environmental Compliance Supervisor and the Installation Restoration (IR)/Underground Storage Tank (UST) Manager, chrome plating was not utilized in electroplating operations on site (Attachment F). Currently, chrome, copper, nickel and tin electroplating processes are identified as utilizing PFAS containing materials (ITRC, 2017). Therefore, the cadmium plating operations at MCAS Beaufort were not included in this PA.

# LANDFILL OPERATIONS, WASTE DISPOSAL AREAS, AND WASTEWATER TREATMENT PLANTS

Historically, landfills received wastes generated from military installations, including waste streams from operational areas (machine shops, electroplating operations, etc.), housing areas,



and waste from wastewater treatment plants (WWTPs) and/or homeported ships. These waste streams may contain industrial and/or consumer products that were either manufactured with PFAS or contain PFAS constituents which may leach out of the landfill. Additionally, waste material biosolids and sludge from WWTPs can contain PFAS.

### SPILL RESPONSE AND VAPOR SUPPRESSION

Applying AFFF to fuel spills reduces volatilization of the fuels and decreases the risk of ignition. According to site personnel this practice has been used at MCAS Beaufort for fuel spills that posed a potential risk to MCAS Beaufort personnel and assets.

### **OTHER POTENTIAL SOURCES**

Due to the widespread use of PFAS, there may be activities other than the ones mentioned above where PFAS were used. PFAS have been included in some anti-fouling and stain-resistant paint formulations. It is possible that in significant amounts, these could be sources of PFAS to the environment.

### 1.2.3 PFAS IN THE ENVIRONMENT

PFAS are a class of anthropogenic compounds characterized by carbon chains of varying lengths containing carbon-fluorine bonds. The strong electronegative force of the carbon-fluorine bond requires a large amount of energy to break, which makes PFAS extremely resistant to biodegradation, photo-oxidation, direct photolysis, and hydrolysis. In addition to their environmental persistence, PFAS are readily soluble in aqueous solution and therefore have potential for migration to groundwater from soil and with groundwater flow to off-site locations. Due to their persistence and mobility, releases of PFAS to the environment present a unique set of challenges and concerns.

### 1.2.4 POTENTIAL HEALTH EFFECTS

Additional research is needed to more clearly understand the potential health effects that may be caused by exposure to PFAS compounds. To date there is limited information on only a few out of the thousands of total PFAS. To date, there are no Tier 1 toxicity values for any PFAS. Tier 1 toxicity values are the preferred source for toxicity factors in Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) human health risk assessments.

The USEPA's Superfund Health Risk Technical Support Center has estimated a Tier 2 noncarcinogenic toxicity value for PFBS (USEPA, 2014). The oral reference dose (RfD) is



based on kidney effects observed in female rats. Due to a lack of information in the current literature, toxicity values for inhalation exposure and cancer endpoints could not be estimated for perfluorobutane sulfonate (PFBS).

The USEPA Office of Water developed an RfD for perfluorooctanoic acid (PFOA) which is based on a developmental toxicity study using mice. The critical effects included reduced ossification in parts of the hand/feet and accelerated puberty in male pups following exposure during gestation and lactation (EPA, 2016a). The EPA Office of Water also determined that PFOA should be classified as "suggestive evidence of carcinogenic potential" and estimated an oral cancer slope factor (CSF) based on tumor development in rat testes.

The EPA Office of Water estimated an RfD for perfluorooctane sulfonate (PFOS) based on a developmental toxicity study in rats; the critical effect was decreased pup body weight following exposure during gestation and lactation (EPA, 2016b).

PFOA and PFOS are known to be transmitted to the fetus in cord blood and to the newborn in breast milk. Because the developing fetus and newborn seem particularly sensitive to PFOA-and PFOS-induced toxicity, the RfDs based on developmental effects are also protective of adverse effects in adults.

### 1.3 REGULATORY BACKGROUND/HISTORY

### 1.3.1 PFOA STEWARDSHIP PROGRAM

In 2006, USEPA initiated the 2010/2015 PFOA Stewardship Program in which eight major companies in the United States committed to reduce facility emissions and product contents of PFOA and related chemicals on a global basis by 95% no later than 2010, and to work toward eliminating emissions and product content of these chemicals by 2015. All companies have met the program goals. To meet the program goals, most companies stopped the manufacture and import of long-chained PFAS, and transitioned to alternative chemicals. On January 21, 2015, USEPA proposed a Significant New Use Rule under the Toxics Substances Control Act to require manufacturers (including importers) of PFOA- and PFOA-related chemicals to notify USEPA at least 90 days before starting or resuming new uses of these chemicals in any process.



### 1.3.2 UNREGULATED CONTAMINANT MONITORING RULE (UCMR)

The USEPA issued the Third Unregulated Contaminant Monitoring Rule (UCMR3)1 in May 2012. The UCMR3 required monitoring, between 2013 and 2015, for 30 substances at all large public water systems (PWSs) serving more than 10,000 people and 800 representative PWSs serving 10,000 or fewer people. Six PFAS compounds were included in the UCMR3 contaminant list. Of these 6 PFAS, USEPA issued health advisory levels for only two, PFOA and PFOS. The UCMR3 results found these two chemicals were present in less than 1% of the nearly 5,000 public water systems that sampled per UCMR3.

In December 2016, USEPA issued the fourth Unregulated Contaminant Monitoring Rule (UCMR4). UCMR4 requires all large PWSs serving more than 10,000 people and 800 representative PWSs serving 10,000 or fewer people to sample for 30 chemicals between 2018 and 2020. There are no PFAS included on the UCMR4 list of contaminants that require sampling and analysis.

### 1.3.3 EPA LIFETIME HEALTH ADVISORIES

In May 2016 the USEPA Office of Water issued a drinking water lifetime health advisory for PFOA and PFOS. Health advisories are not enforceable, regulatory levels; rather they are levels that would provide Americans, including sensitive populations, with a margin of protection from a lifetime of exposure to PFOA and PFOS from drinking water. The health advisory is 70 parts per trillion (ppt) for PFOA and 70 ppt for PFOS. When both PFOA and PFOS are found in drinking water, the combined concentrations of PFOA and PFOS should be compared with the 70 ppt health advisory level.

# 2. INVESTIGATION SUMMARY

This section provides a description of the activities conducted as part of this investigation. AECOM conducted a records search and document review to identify and evaluate sites across MCAS Beaufort where PFAS may have been historically used, stored, disposed of, and/or released. Interviews with environmental, fire and maintenance personnel were completed to verify existing knowledge and to identify additional locations of potential PFAS-related areas.

<sup>&</sup>lt;sup>1</sup> The 1996 Safe Drinking Water Act (SDWA) amendments require that once every five years EPA issue a new list of no more than 30 unregulated contaminants to be monitored by public water systems (PWSs).



### 2.1 REVIEW OF RECORDS

A records review was initiated in March 2018 and included using the Internet to obtain reports, news articles, historical images and other available information to aid in documenting the use, storage, disposal and release of PFAS containing materials at MCAS Beaufort. Additionally, the Internet was utilized to obtain information regarding drinking water and the environmental setting at MCAS Beaufort and the surrounding area. Searches were conducted using the Navy's Administrative Record (AR), EDR, AECOM archives, and general search engine. In addition, documents provided by MCAS personnel were reviewed and are included in Attachments A through F. A summary of the research is included below.

### 2.1.1 NAVY ADMINISTRATIVE RECORD

The online Navy AR was utilized to obtain documents regarding environmental testing and sampling conducted at MCAS Beaufort. A total of 2,076 documents were available for review, including 937 reports. An assessment of the documents available on the Navy AR was conducted to evaluate potential areas where PFAS containing materials may have been used, stored, disposed or released.

The Initial Assessment Study (IAS) (Dames and Moore, 1986) and the RCRA Facility Assessment Report (A.T. Kearney, Inc., 1986) provided general background information (e.g., site history, setting, and facility operations) for existing RCRA sites (SWMUs and AOCs) located within MCAS Beaufort. Site specific reports from the Navy AR were reviewed to gather general background information for SWMUs and AOCs that were identified after the completion of the IAS in 1986. Additionally, the Navy AR was searched using the keywords crash, fire, AFFF and foam.

A more thorough document review of site specific reports was performed for sites where PFAS impacts were suspected based on general background information. The reports available for review included RCRA Facility Investigation reports, groundwater and soil sampling reports, Tier I and II Assessment reports, Corrective Measure Study reports, Remedial Investigation reports, various work plans, Phase I and II reports, Statement of Basis reports, etc.

### 2.1.2 ENVIRONMENTAL DATA RESOURCES, INC.

Two EDR reports for SWMU 12, and SWMU 13, SWMU 36 and UXO 3 were prepared as part of DASN (E) Policy Memo, 20 June 2016. AECOM reviewed these reports to collect information regarding drinking water sources within one-mile of potential PFAS release areas.



### 2.1.3 AECOM ARCHIVES

AECOM archive documents include previously conducted environmental assessments and investigative reports that are not currently available on the Navy AR. A review of these reports was conducted to identify historical activities and operations at the site. Documents from the AECOM archives provided general background information for areas of known or suspected use, storage or release of PFAS containing materials.

### 2.1.4 GENERAL SEARCH ENGINE

A general search engine was utilized to search the Internet for the following keywords in combination with MCAS Beaufort: fire, crash, plane crash, accident, aqueous film forming foam, foam, and AFFF. The search yielded news articles with information pertaining to fires and crashes where MCAS Beaufort was involved in the emergency response efforts.

The search engine was also utilized to obtain historical aerial photographs, maps pertinent to the environmental setting and drinking water sources. The University of South Carolina Thomas Cooper Library Maps Department was utilized to obtain historical aerial photographs dating back to 1939. The U.S. Fish and Wildlife Service website was utilized to obtain wetland maps and critical habitat maps, and the Federal Emergency Management Act website was utilized to obtain floodplain maps. The South Carolina Department of Natural Resources water well inventory was utilized to obtain information about drinking water supplies within one-mile of suspected PFAS release areas. The map search function of the general search engine was utilized to identify schools and daycares within one-mile of MCAS Beaufort.

### 2.1.5 ADDITIONAL DOCUMENTS

Site personnel provided additional documents regarding the use, storage, disposal and release of AFFF at MCAS Beaufort. The following documents provided by site personnel were reviewed by AECOM, and are provided in Appendices A through E, respectively:

- AFFF Inventory summarizing AFFF installed in fire suppression systems and trucks, and containerized AFFF stored in warehouses. The inventory includes quantities of AFFF at each location and contact information for the managers of the locations (Attachment A).
- AFFF Spill Reports dating back to 2014. The reports outline details about the release including date and time, location, personnel involved, description of the release, estimated volume of AFFF released, cause of release and corrective action (Attachment B).



- MCAS Beaufort General Development Map showing the current layout of the base including buildings, runways, roads and water features (Attachment C).
- AFFF Waste Disposal Manifests including manifests for bulk disposal and a summary table for non-bulk disposal (Attachment D).
- Fire response narrative for the 2019 fire response (Attachment E).

### 2.2 SITE INTERVIEWS

AECOM conducted interviews with persons familiar with the installation to document their knowledge of former and current use, handling, storage or releases of PFAS containing materials at MCAS Beaufort. A summary of the interviews is provided below, and records of these interviews, phone calls and electronic mail exchanges with Site personnel are available in the communication logs in Attachment F.

On May 9, 2018 AECOM conducted in person interviews with an ARFF employee, the MCAS Beaufort Environmental Compliance Supervisor, and the MCAS Installation Restoration (IR)/Underground Storage Tank (UST) manager. AECOM conducted telephone interviews with the following personnel:

- Fire Department Chief (May 23, 2018),
- Public Works Engineering Director (July 13, 2018),
- Hazardous Materials Manager (February 12, 2019),
- Lead Fire Inspector on (February 15, 2019),
- ARFF Admin Chief (March 5, 2019),
- ARFF Material Chief (March 6, 2019),
- Site Safety Manager, Building 617 (March 11, 2019), and
- Safety and Environmental Non-Commissioned Officer (March 13, 2019).

Additional information, follow up questions and requests for supporting documents were exchanged via electronic-mail between AECOM and the following personnel:

- ARFF Fire Chief (May 23, 2018),
- Environmental Compliance Supervisor (May 22 and 24, 2018 and February 28, 2019),
- Fire Department Chief (June 21, 2018),
- Utilities Director (February 28, 2019),



- Environmental Engineer (February 28, 2019), and
- IR/UST Manager (March 1 and 28, 2019).

Following the initial round of interviews, the Environmental Compliance Supervisor provided AFFF spill, storage and disposal records, and a facility map via electronic-mail. The ARFF Admin Chief provided the fire response narrative for the 2019 incident via electronic email.

### 2.3 SITE WALK

Site walks were conducted over the course of the investigation to inspect certain areas identified during the literature review, records search and interview process. On May 9, 2018 sites accessible without special clearance were inspected, including temporary waste storage areas, former landfills and former disposal areas. Additionally, AECOM was escorted by an ARFF employee to perform site walks at the current FTA and the ARFF Station (Building 1313). On March 12, 2019 AECOM performed site walks at AFFF storage locations to gather information regarding general housekeeping and storage practices.

Information gathered during site walks was used to evaluate the potential for release of PFAS containing materials and to aid in recommending a path forward for the area. Information gained during the site walks is presented in the site-specific CSMs.

# 3. AREAS RECOMMENDED FOR NO FURTHER ACTION

Based on a review of site documents, numerous areas were identified where PFAS were potentially used, stored, disposed, and/or released at MCAS Beaufort. These identified areas were further evaluated through site interviews and a more thorough document review to recommend a path forward. Sites were recommended for NFA based on history of use and lack of evidence regarding the release or presence of materials containing PFAS. Additionally, Navy guidance specifies that the following areas should be classified as NFA:

- Fires where it is known that AFFF was not used:
- Sites where releases of fire-fighting foam (such as ox blood foam), paints, pesticides, or cleaners were released before 1960;
- Areas where pesticides, cleaners, or paints were used for their intended purposes;
- Car washes and auto hobby shops; and
- Active ranges.

As a result of the assessment, 17 of the identified sites are recommended for NFA. The following section is organized by site and presents the CSM for each area recommended for NFA. Table 1 summarizes this information and provides a recommended path forward. Figure 1



illustrates the location of each area identified on MCAS Beaufort. Figures 2 through 7 provide a more detailed illustration of the identified areas.

### 3.1 EOD RANGE

The Explosive Ordinance Disposal (EOD) Range is located at the end of Range Road, west of the northern end of runway 23, as shown in Figure 2. Operations at the EOD range include training EOD personnel to neutralize Improvised Explosive Devices (IEDs). During training simulations, IEDs may be detonated. During personnel interviews, the Fire Department Chief and the EOD Safety and Environmental Representative confirmed that no AFFF is used during fire response activities at the range (Attachment F). Emergency fire response at the EOD Range includes using a master stream device connected to a water source to contain and extinguish the flame.

Historic and current fire response procedures at the EOD range do not include the use of AFFF. Based on this information, the Navy recommends NFA for this area.

### 3.2 SWMU 89 – SURFACE DEBRIS AREA

Solid Waste management Unit (SWMU) 89 is located near the intersection of Funa Futi Road E and RC West Road N, as shown in Figure 2. Miscellaneous debris was located in this area, including of deteriorated drums, wire, steel grates, paint cans, and possible munitions-related debris (Tetra Tech, 2015). The years of disposal at SWMU 89 are unknown. There are no records of fire responses in this area.

Based on the type of debris disposed and the absence of fire response activities in this area, there is no reason to believe that AFFF was used or disposed in SWMU 89. Based on this information, the Navy recommends NFA for this area.

### 3.3 SWMU 17 – FUNA FUTI DISPOSAL AREA

SWMU 17 consists of the former Funa Futi Disposal Area that was located adjacent to Cala Road, as shown in Figure 2. The site covered approximately 6500 square feet of a wooded area and was used for waste disposal in the 1960's. Materials disposed in this area included steel cable, empty paint cans, 55-gallon drums, 5-gallon containers, bottles and cans, empty glass containers and large rolls of wire (Dames and Moore, 1986). The containers and drums present in the disposal area appeared to have been open and empty at the time of disposal. Excavation of the disposal area was completed during development of the ordinance handling pads in 1988 (USACE, 2003a).

Based on the waste disposed in this area, there is no indication that AFFF or other materials containing PFAS were used or disposed in SWMU 17. Based on this information, the Navy recommends NFA for this area.



# 3.4 SWMU 75 - HAZARDOUS WASTE CONTAINER STORAGE FACILITY

The hazardous waste container storage area (SWMU 75) is located at the intersection of NREAO Loop and Iwate Maru Road, as shown in Figure 3. The storage area has a maximum inventory of 240 55-gallon drums, and acts as a temporary storage location for drums prior to transport and disposal (A.T. Kearny, Inc., 1986). The area is divided into six storage bays with spill containment structures and drums are stored on wooden pallets on a concrete pad. Additionally, Buildings 1258 and 1205 are located at SWMU 75 and serve as offices for waste management personnel and the non-regulated waste storage area, respectively.

Wastes stored at SWMU 75 have historically included asbestos, contaminated rags, contaminated absorbent material, acids, alkalines, chlorinated hydrocarbons and other solvents (A.T. Kearny, Inc., 1986). The MCAS Beaufort Environmental Compliance Manager reported that pure AFFF, AFFF rinsate and AFFF contaminated solids have historically been, and currently are, stored in Building 1205. According to current storage records, AFFF concentrate in 55-gallon drums and 5-gallon buckets, debris contaminated with AFFF in 55-gallon drums, and AFFF rinsate in 55-gallon drums are stored in Building 1205 (Attachment A). Additionally, 55-gallon drums and carbon drums containing treated groundwater associated with a current PFAMS investigation (SWMU 12) are temporarily stored on pallets at SWMU 75. The carbon drums are used to filter the PFAS contaminated groundwater prior to disposal.

Good housekeeping practices at the AFFF storage locations were noted during the site walk. Storage records are kept up to date and personnel who oversee the area do regular inspections to ensure the containers are not compromised. The containers were in good condition during the site walk, and there was no evidence of spills. According to site personnel, no spills or releases have been reported in this area (Attachment F).

SWMU 75 is an area of known storage of AFFF and AFFF contaminated materials. However, there are no documented releases of AFFF in this area, and housekeeping and record keeping practices indicate appropriate management of AFFF material in this area. Based on this information, SWMU 75 is recommended for NFA.

# 3.5 SWMU 80 – OIL WATER SEPARATOR (WASH RACK 953)

SWMU 80 is the oil water separator (OWS) associated with Aircraft Wash Rack 953 located along the flight line to the east of Hangar 728, as shown in Figure 4. The wash rack area consists of a concrete pad for washing aircraft, an associated wash rack equipment storage building and an OWS. The runoff from the concrete pad enters the OWS, which separates out fuels during the washing of aircraft. The OWS is only connected to the wash rack and is outfitted



with an on/off valve that prevents releases of storm water into the sanitary sewer. The valve remains closed when the wash rack is not in use (Attachment F).

Results of this assessment could not confirm PFAS were an active component of materials used at the wash rack. Based on this information, the Navy recommends NFA for SWMU 80.

### 3.6 SWMU 81 – OIL WATER SEPARATOR (WASH RACK 959)

SWMU 81 is the OWS associated with the Aircraft Wash Rack 959 located to the east of Hangar 594 as shown in Figure 4. The wash rack area consists of a concrete pad for washing aircraft, an associated wash rack equipment storage building and an OWS. The runoff from the concrete pad enters the OWS, which separates out fuels during the washing of aircraft. The OWS is only connected to the wash rack and is outfitted with an on/off valve that prevents releases of storm water into the sanitary sewer. The valve remains closed when the wash rack is not in use (Attachment F).

Results of this assessment could not confirm PFAS were an active component of materials used at the wash rack. Based on this information, the Navy recommends NFA for SWMU 81.

### 3.7 BUILDING 1270 – JOINT HAZMIN CENTER

Building 1270 is the Joint Hazardous Material Minimization (HAZMIN) Center located west of Hangar 729 at the intersection of 2nd Avenue and C-Street, as shown in Figure 4. HAZMIN operations at this location began in November 2005 and include management of the purchase, use and storage of all hazardous materials at MCAS Beaufort (Navy, 2010). Currently, four 5-gallon pails (20 gallons) of PHOS-CHEK 3% AFFF are stored in Building 1270. The AFFF was manufactured by ICL Performance Products in September 2016 (Attachment A).

The Hazardous Materials Manager reported that the containers of AFFF are stored on pallets and remain closed for the duration of the time that they are stored in Building 1270 (Attachment F). Containers of AFFF remain unopened during transportation to the location where they will be used. Daily walkthroughs of the storage area are completed to ensure that container integrity has not been compromised and that no leaks or spills have occurred. Good housekeeping practices at the AFFF storage locations were noted during the site walk. Storage records are kept up to date and personnel who oversee the area do regular inspections to ensure the containers are not compromised. The containers were in good condition during the site walk, and there was no evidence of spills. According to site personnel, no spills or releases have been reported in this area.

Building 1270 is an area of known storage of AFFF. However, there are no documented releases of AFFF in this area, and housekeeping and record keeping practices indicate



appropriate management of AFFF material in this area. Based on this information, Building 1270 is recommended for NFA.

### 3.8 BUILDING 262 – ARFF BUNKER

Building 262 is the Aircraft Rescue and Firefighting (ARFF) Bunker, located on Tacan Loop to the east of A5 Taxiway, as shown in Figure 5. The building is used to store materials associated with ARFF activities, including unused AFFF. AFFF is stored in Building 262, including 21 5-gallon pails (105 gallons) of Ansulite 3% Polar Solvents AFFF manufactured prior to June 2016, and 109 5-gallon pails of ICL Performance Products PHOS-CHEK 3% AFFF manufactured in September 2016 (Attachment A).

The ARFF Materials Chief reported that the containers of AFFF are stored on pallets and remain closed for the duration of the time that they are stored in Building 262 (Attachment F). Containers of AFFF remain unopened through transportation to the location where they will be used. Regular walkthroughs of the storage area are completed to ensure that container integrity has not been compromised and that no leaks or spills have occurred. Good housekeeping practices at the AFFF storage location were noted during the site walk. Storage records are kept up to date and personnel who oversee the area do regular inspections to ensure the containers are not compromised. The containers were in good condition during the site walk, and there was no evidence of spills. According to site personnel, no spills or releases have been reported in this area.

Building 262 is an area of known storage of AFFF. However, there are no documented releases of AFFF in this area, and housekeeping and record keeping practices indicate appropriate management of AFFF material in this area. Based on this information, Building 262 is recommended for NFA.

# 3.9 BUILDING 617 – AHTNA TECHNICAL SERVICES, INC WAREHOUSE

Building 617 is the Ahtna Technical Services, Inc. (ATSI) Warehouse, located on Engineer Avenue, as shown in Figure 6. The building is used to store materials associated with maintenance activities, including unused AFFF. A total of 885 gallons of AFFF are stored in Building 262, including one 5-gallon pail of Chem-Guard 3% AFFF with an unknown manufacture data, three 55-gallon drums (165 gallons) of Chem-Guard 3% AFFF manufactured on September 4, 2015, 12 55-gallon drums (660 gallons) of Chem-Guard 3% AFFF manufactured on July 31, 2015, and one 55-gallon drum of Buckeye 3% AFFF with an unknown manufacture date (Attachment B).

The ATSI Warehouse Site Safety Manager reported that the containers of AFFF are stored on pallets and remain closed for the duration of the time that they are stored in Building 617



(Attachment F). Containers of AFFF remain unopened through transportation to the location where they will be used. Weekly walkthroughs of the storage area are completed to ensure that container integrity has not been compromised and that no leaks or spills have occurred. No releases at this location have been reported and during a site walk, AECOM found no evidence of releases. Additionally, good housekeeping and record keeping are practiced at this location.

No records were found that indicate any release of AFFF has occurred at Building 617. Additionally, housekeeping and record keeping practices indicate appropriate management of AFFF material in this area. Therefore, the recommended path forward for Building 617 is NFA.

### 3.10 SWMU 5 – PESTICIDE RESIDUE PIT AREA

SWMU 5 consists of two pesticide rinsate disposal areas located adjacent to Building 617, as shown in Figure 6. Building 617 was used as a storage and mixing facility for pesticides from 1956 through 1972 (Dames and Moore, 1986). During this time, pesticide rinsate was disposed on the ground, in a 200 square foot area on the southern corner of building 617. Records indicate that the pesticides disposed at SWMU 5 did not contain PFAS (A. T. Kearny, 1986). From 1972 to 1979, pesticide storage and mixing operations took place in building 1512 (Shaw Environmental and Infrastructure, Inc., 2012). During this time pesticide rinsate was discharged to a seepage pit on the northwestern corner of building 1512. The seepage pit consisted of a buried, open-ended 55-gallon drum filled with gravel (McClelland Consultants, 1989). Building 1512 was demolished in 1979, except for a concrete slab and the building foundation, and the gravel pit was filled with dirt (Dames & Moore, 1986). It is estimated that 31,000 gallons of pesticide rinsate was disposed at SWMU 5.

Results of this assessment could not confirm PFAS were an active component of materials disposed at SWMU 5. Based on this information, the recommended path forward for SMWU 5 is NFA.

### 3.11 SWMU 8 – KAVIENG STREET LANDFILL

SWMU 8 consists of the former Kavieng Street Landfill adjacent to building 610 in the southeastern portion of the base, as shown in Figure 6. Waste disposal operations at SWMU 8 took place from 1955 through 1957 (Dames and Moore, 1986). Waste disposed during operation included domestic trash and garbage, empty pesticide containers, cleaning rags, oil cans and filters, painting tools, spray paint booth filters, contaminated jet fuels, waste motor and lube oils, hydraulic fluids, used solvents, paint thinners and strippers, mercury waster, and asbestos brakes.

Based on the waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 8. Additionally, operations at the site ceased prior to 1960. Based on this information, the Navy recommends NFA for this area.



### 3.12 SWMU 4 – SOUTHEAST DISPOSAL AREA

SWMU 4 consists of the former Southeast Disposal Area at the southeastern end of Geiger Boulevard, as shown in Figure 6. Waste disposal operations at SWMU 4 took place from the late 1950's to the early 1960's (Dames and Moore, 1986). Waste disposed during operation included excess building materials and construction debris.

Based on the years of operation and the waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 4. Based on this information, the Navy recommends NFA for this area.

### 3.13 SWMU 3 – BORROW PIT LANDFILL

SWMU 3 consists of the former Borrow Pit Landfill adjacent to building 1152 in the southern portion of the base, as shown in Figure 6. Waste disposal operations at SWMU 3 took place from 1957 through 1958 (Dames and Moore, 1986). Waste disposed during operation included domestic trash and garbage, empty pesticide containers, cleaning rags, oil cans and filters, painting tools, spray paint booth filters, contaminated jet fuels, waste motor and lube oils, hydraulic fluids, used solvents, paint thinners and strippers, mercury waster, and asbestos brakes.

Based on the waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 3. Additionally, operations at the site ceased prior to 1960. Based on this information, the Navy recommends NFA for this area.

### 3.14 SWMU 72 – BASE PHOTO LAB

SWMU 72 includes the base photo lab located at the intersection of Geiger Boulevard and Elrod Street, as shown in Figure 6. Operations within the lab include developing photographic film. Waste generated from operations include scrap film and photographic chemicals such as fixer and developer. Approximately 120 to 340 gallons of waste chemicals are produced by the photo lab (A. T. Kearny, 1986).

During the investigation, no documentation could confirm that PFAS were an active component in developing or fixer solution. Additionally, any release of chemicals would have been limited. Based on this information, SWMU 72 is recommended for NFA.

### 3.15 FORMER BUILDING 773 – FORMER AUTO HOBBY SHOP

The former Auto Hobby shop was located in Building 773 at the intersection of Delalio Avenue and South Kavieng Street, as shown in Figure 6. Operations at the Auto Hobby Shop included general automobile maintenance. Waste generated during operations were stored adjacent to Building 773 at Area of Concern (AOC) I and included engine oils, lube oils and hydraulic fluids



form automobiles (A. T. Kearny, 1986). Aerial images suggest that Building 773 was demolished sometime between 1994 and 2003.

No records were found that suggest PFAS were an active component of materials used at the Hobby Shop. Based on this information and Navy guidance which suggests that Auto Hobby Shops should be NFA, the Former Auto Hobby shop is recommended for NFA.

### 3.16 BUILDING 612 – ARFF WAREHOUSE

Building 612 is the ARFF Warehouse, located on Fire Lane Road, as shown in Figure 7. The building is used to store materials associated with ARFF activities, including unused AFFF. A total of 1,805 gallons of AFFF are stored in Building 612, including 161 5-gallon pails (805 gallons) of Ansulite 3% Polar Solvents AFFF manufactured in November 2011, and 200 5-gallon pails of ICL Performance Products PHOS-CHEK 3% AFFF manufactured in September 2016 (Attachment B).

The ARFF Materials Chief reported that the containers of AFFF are stored on pallets and remain closed for the duration of the time that they are stored in Building 612 (Attachment F). Containers of AFFF remain unopened through transportation to the location where they will be used. Regular walkthroughs of the storage area are completed to ensure that container integrity has not been compromised and that no leaks or spills have occurred. Good housekeeping practices at the AFFF storage location were noted during the site walk. Storage records are kept up to date and personnel who oversee the area do regular inspections to ensure the containers are not compromised. The containers were in good condition during the site walk, and there was no evidence of spills. According to site personnel, no spills or releases have been reported in this area.

No records were found that indicate any release of AFFF has occurred at Building 612. Additionally, housekeeping and record keeping practices indicate appropriate management of AFFF material in this area. Therefore, the recommended path forward is NFA.

### 3.17 BUILDING 615 – JOINT HAZMIN STORAGE WAREHOUSE

Building 615 is the Joint HAZMIN storage warehouse located at the intersection of Kimes Avenue and North Drayton Street, as shown in Figure 7. HAZMIN operations at this location began in November 2005 and include management of the purchase, use and storage of all hazardous materials at MCAS Beaufort (Navy, 2010). Currently, 196 containers of AFFF are stored at this location.

The Hazardous Materials Manager reported that the containers of AFFF are stored on pallets and remain closed for the duration of the time that they are stored in Building 615 (Attachment F). Containers of AFFF remain unopened through transportation to the location where they will



be used. Daily walkthroughs of the storage area are completed to ensure that container integrity has not been compromised and that no leaks or spills have occurred. Good housekeeping practices at the AFFF storage locations were noted during the site walk. Storage records are kept up to date and personnel who oversee the area do regular inspections to ensure the containers are not compromised. The containers were in good condition during the site walk, and there was no evidence of spills. According to site personnel, no spills or releases have been reported in this area.

Building 615 is an area of known storage of AFFF. However, there are no documented releases of AFFF in this area, and housekeeping and record keeping practices indicate appropriate management of AFFF material in this area. Based on this information, Building 615 is recommended for NFA.

### 3.18 SWMU 1 – FENCED HAZARD AREA

SWMU 1 is approximately 0.8 acres, and is roughly rectangular in shape (150 feet by 250 feet). The Navy designated SWMU 1 (Figure 6) as a potential UXO site based on warning signs present at the western boundary of SWMU 1, and because of interviews that reported that radioactive and chemical wastes were suspected in this area; to date, it is unknown what activities were performed at this site. When the 0.8-acre site was discovered, it was surrounded by a rusted barbed wire fence. Some fence posts along the western boundary bore small triangular home-made warning signs that read "Gas" and "Atom." Reportedly, SWMU 1 was last used in the mid-1960s, and the fence was erected after site operations ceased; however, the exact use of the area prior to fence construction is unknown. Historical investigations (McClelland Consultants, 1989) indicated that SWMU 1 was not used as a disposal area or for radiological activities.

In 1988, radiation and geophysical surveys were conducted within the fenced area of SWMU 1. The radiation survey did not identify any anomalous or suspected radioactive areas within the fenced area of SWMU 1. The geophysical survey did not identify any area within the fenced area that appeared to be indicative of buried metallic or electrically conductive material.

Subsequent investigations, both geophysical and environmental, were conducted in the area in 2001, 2010, and 2013. None of these investigations revealed the presence of buried waste or surface disposal at SWMU 1 (Resolution Consultants, 2017).

Based on the absence of waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 1. Based on this information, the Navy recommends NFA for this area.



### 3.19 SWMU 84 – PISTOL RANGE LANDFILL

SWMU 84 is located in a wooded area in the northeast quadrant of MCAS Beaufort within a small drainage feature that opens into a salt marsh (Figure 1). SWMU 84 was originally investigated as the Site 23 Pistol Range Landfill. Surface debris was found at the northern portion of the SWMU boundary, but no evidence was found to indicate the site was ever a landfill. The surface debris, consisting of approximately 2 cubic yards of scattered household refuse, including scrap metal, wood pieces and soda cans, was removed in October 2011 and disposed of as non-regulated municipal waste (CH2MHILL, 2015).

An initial Preliminary Assessment (PA) was conducted at the site in 1989. The alleged landfill was believed to have been active from 1978 through 1980 and covered with nearby soils between 1981 and 1984. Results of the PA identified no visual evidence of hazardous materials or drummed waste disposal. The PA did identify surface debris, described as trash, in a portion of the site (CH2MHILL, 2015).

Based on the waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 84. Based on this information, the Navy recommends NFA for this area.

### 3.20 SWMU 9 – FORMER LUBE OIL PIT

SWMU 9 - The Former Lube Oil Pit was located in a 1-acre field next to the Combat Service Support Detachment 23 along DeLalio Avenue about 300 feet north of the tidal marsh drained by Albergotti Creek (Figure 7). The site contained a rubble-filled concrete pit approximately 4-feet deep that was originally used as a service area for changing motor oil and performing minor vehicle maintenance. Official MCAS Beaufort operations at the lube pit ceased in 1974, although the area reportedly received continued use after 1974 by private parties (USACE, 1999).

Based on the waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 9. Based on this information, the Navy recommends NFA for this area.

### 3.21 SWMU 76 – FORMER INCINERATOR DISPOSAL AREA

SWMU 76 is located along the approach to Runway 32 in the southeast portion of MCAS Beaufort (Figure 6). The site occupies approximately 5.7 acres and is mostly comprised of well-maintained grasses and a few sparse trees. SWMU 76 includes two site features: former Building 231 and a concrete vault located approximately 80 feet south of the former Building 231 location. The former Building 231 housed an incinerator and was likely used to incinerate and dispose of trash and other combustible wastes from 1943 until 1946 (Dames and Moore, 1986). The incinerator was reportedly 20 feet long and was demolished in the mid-1950s (Dames and Moore, 1986). Currently, an earthen mound remains at the approximate location of former Building 231.



Based on the waste disposed in this area and the time of operation (before 1960), there is no indication that AFFF was used or disposed at SWMU 76. Based on this information, the Navy recommends NFA for this area.

### 3.22 SWMU 77 – ACID NEUTRALIZATION PIT

SWMU 77 is located northwest of the intersection of Drayton Street and 2nd Street in the southwest quadrant of MCAS Beaufort (Figure 4). SWMU 77 Acid Neutralization Pit was originally incorporated into the site design for former Building 36 for the disposal of used and surplus battery electrolyte. Building 36 served as a Ground Support Equipment Facility, a Battery Maintenance Shop, and later as the MCAS Hazardous Waste Minimization Facility. The pit was discovered by accident in December 2000 when heavy equipment was driven across it, cracking the concrete slab cover (USACE, 2003b).

A visual description completed in October 2002 describes the pit as a 2-foot by 2-foot concrete vault, approximately 2.5-feet deep with 5-inch thick walls. The floor of the vault was concrete and was covered with several inches of limestone gravel. A ¾-inch steel plate had replaced the damaged concrete cover. The vault was designed with an influent pipe, which was connected to Building 36 via a floor drain, and an effluent pipe, which exited to the northeast. Building 36 was demolished in October 2008 and the flooring, floor drains, piping, and pit were removed in January 2009 (USACE, 2003b).

Based on the waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 77. Based on this information, the Navy recommends NFA for this area.

### 3.23 SWMU 85 - AUTOMOTIVE DEBRIS PILE

SWMU 85 is located near the northwest corner of MCAS Beaufort, near the end of runway 14 (Figure 1). Two debris piles and several small soil piles that contained various amounts of debris were discovered at the site. The soil piles originally ranged from 1 to 3 feet in height. The debris piles were present at the time the parcel was acquired by MCAS and no documentation of the origin or use of the piles has been identified. Little is known about the site history or the source of the debris and it is unclear when the debris was placed in the area (Tetra Tech, 2014b).

Based on the waste disposed in this area, there is no indication that AFFF was used or disposed at SWMU 85. Based on this information, the Navy recommends NFA for this area.

### 3.24 SWMU 87 – 1940'S ERA WASTE WATER TREATMENT PLANT

SWMU 87 – Former 1940's-Era WWTP is located near the center of MCAS Beaufort (Figure 4). The former WWTP was in operation during the time the Beaufort installation was an NAS from 1942 to 1946. SWMU 87 is believed to have been closed down in 1946 when the NAS was



closed. The former WWTP consisted of sedimentation basins, a sludge digester, sludge drying beds, and a control building (Tetra Tech, 2014a).

Based on the time of operation (before 1960), there is no indication that AFFF was used or disposed at SWMU 87. Based on this information, the Navy recommends NFA for this area.

### 4. SUMMARY AND RECOMMENDATIONS

The Navy has recommended 24 areas/buildings for NFA. A comprehensive list of these areas that includes details of the site specific CSMs and recommended path forward is provided in Table 1. Figures 1 through 7 provide a graphical summary of these areas.

Site-specific CSMs were developed using site drawings, historic investigation reports, and other lines of evidence to evaluate the likelihood of PFAS impacts. Based on the information available, the Navy has provided recommendations for NFA for each evaluated area included in this memo. The identified areas and recommendations provided on Table 1 are based on the available site histories and information, discussions with MCAS Beaufort staff, and an understanding of common practices associated with the identified uses of PFAS.

Results of this assessment recommended 18 specific areas or buildings on MCAS Beaufort for NFA. Recommendations were made based on Navy Guidance (2018), and history of use and/or lack of evidence regarding the release or presence of materials containing PFAS.

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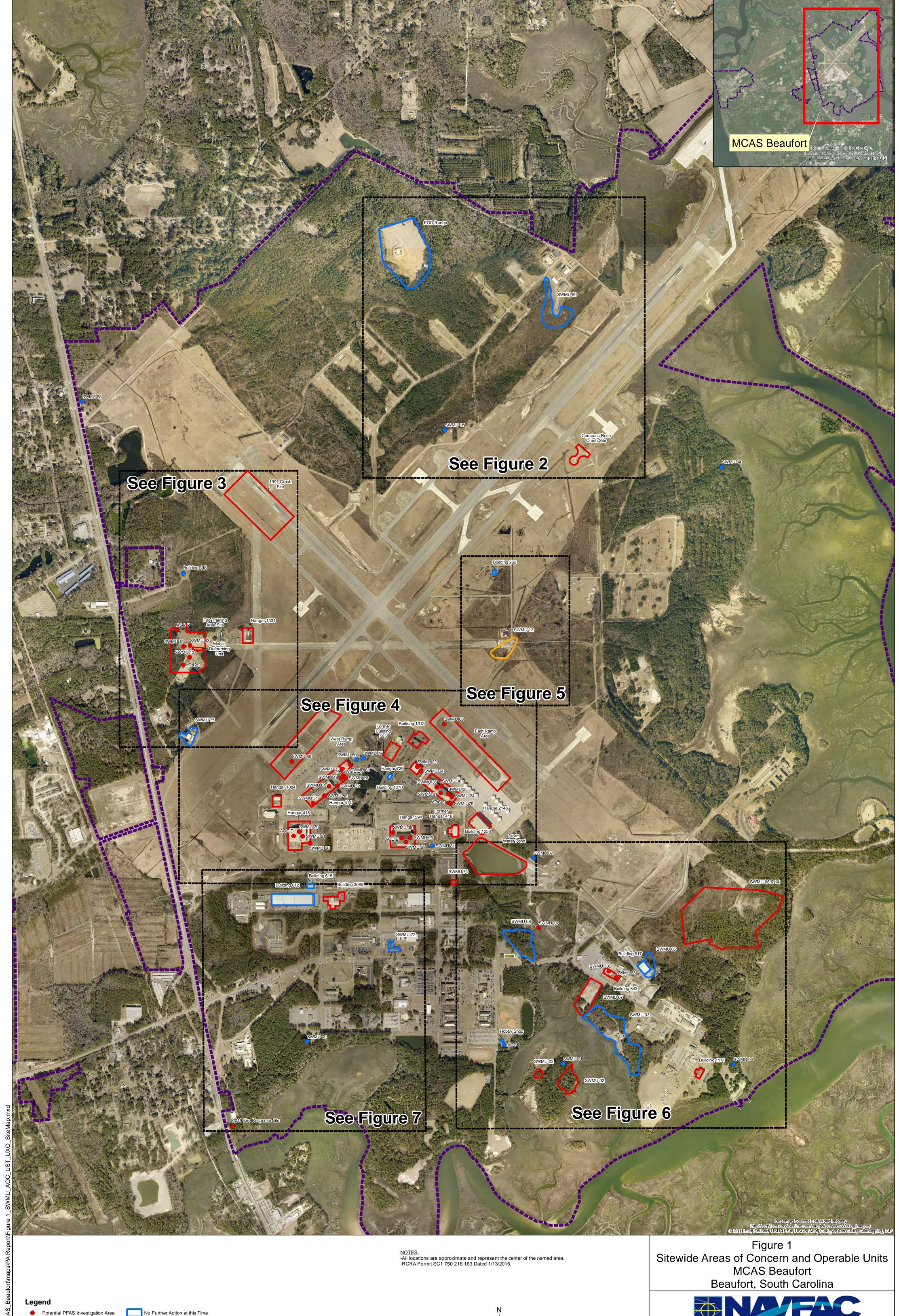


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# FIGURES

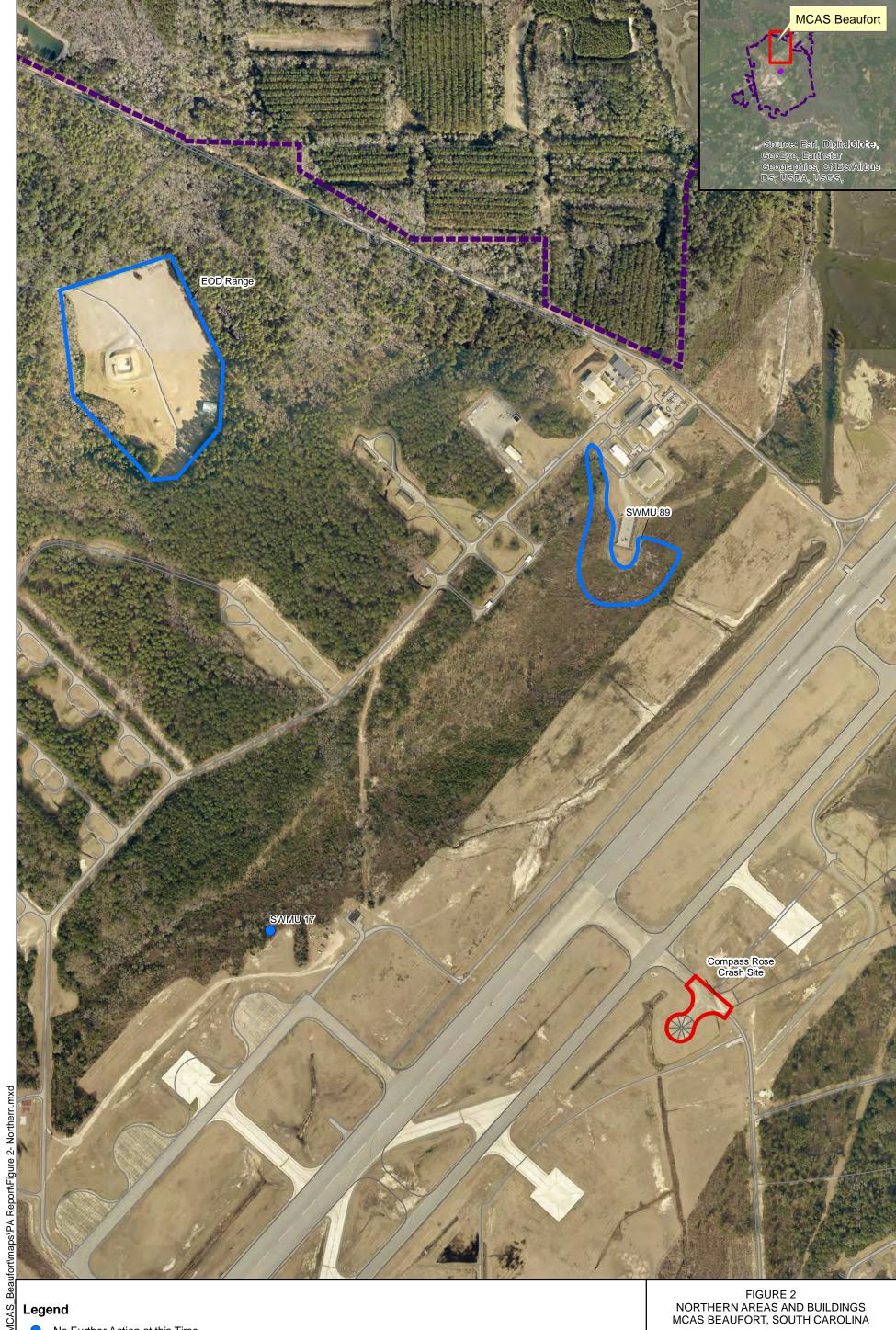


No Further Action at this Time Potential PFAS Investigation Current PFAS Investigation

No Further Action at this Time

DATE: 6/27/2019 TASK ORDER NUMBER: 18F4605

1,550 REQUESTED BY: SED DRAWN BY: RDA



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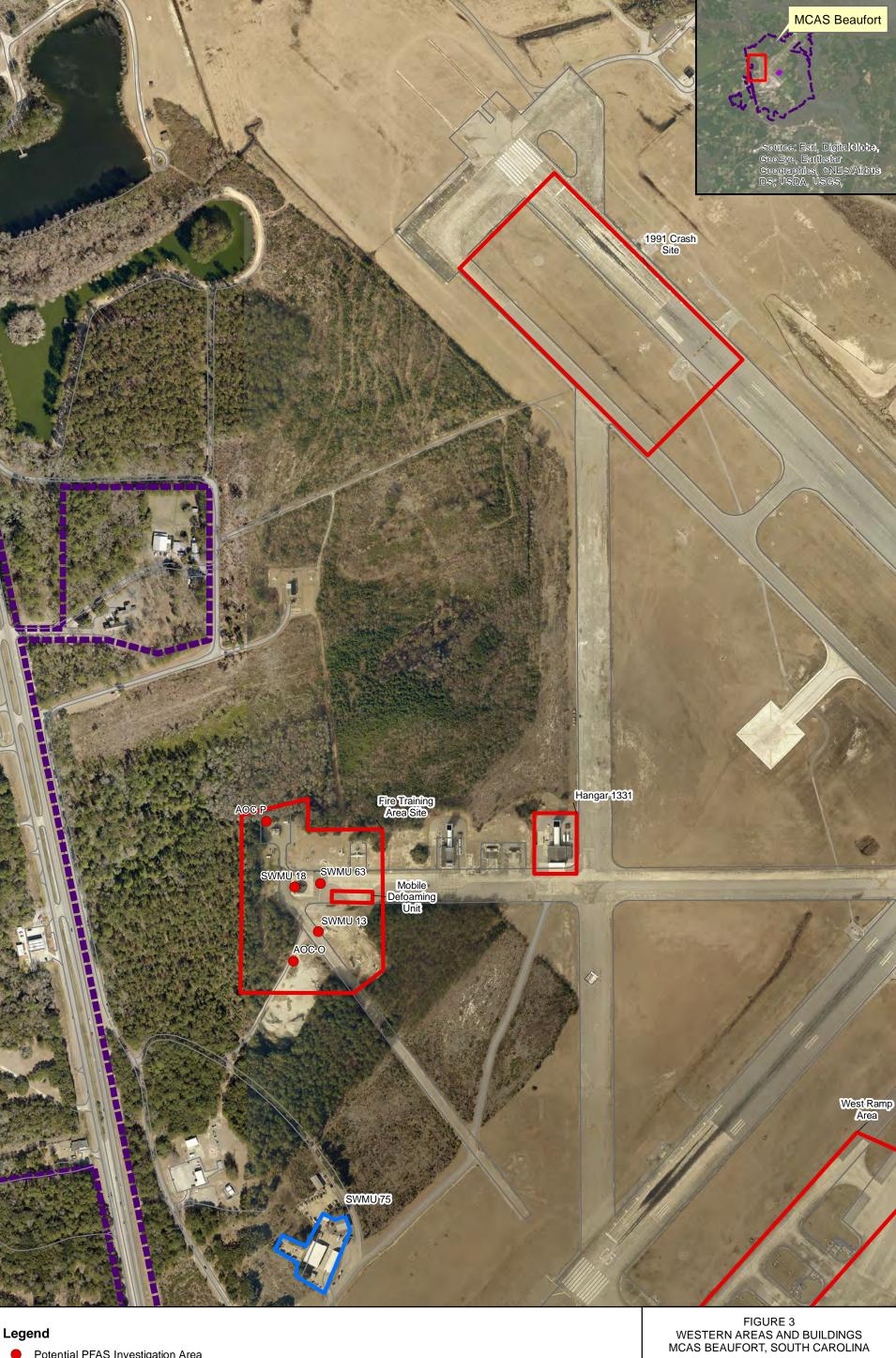
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500 ☐ Feet 1 inch = 500 feet



REQUESTED BY: TSR DRAWN BY: LLM



Property Boundary

No Further Action at this Time

No Further Action at this Time
Potential PFAS Investigation
Former Runway and Taxiway



0 200 400 Feet 1 inch = 400 feet



REQUESTED BY: TSR DRAWN BY: LLM

DATE: 6/27/2019 TASK ORDER: 18E4605

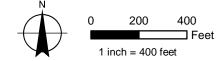


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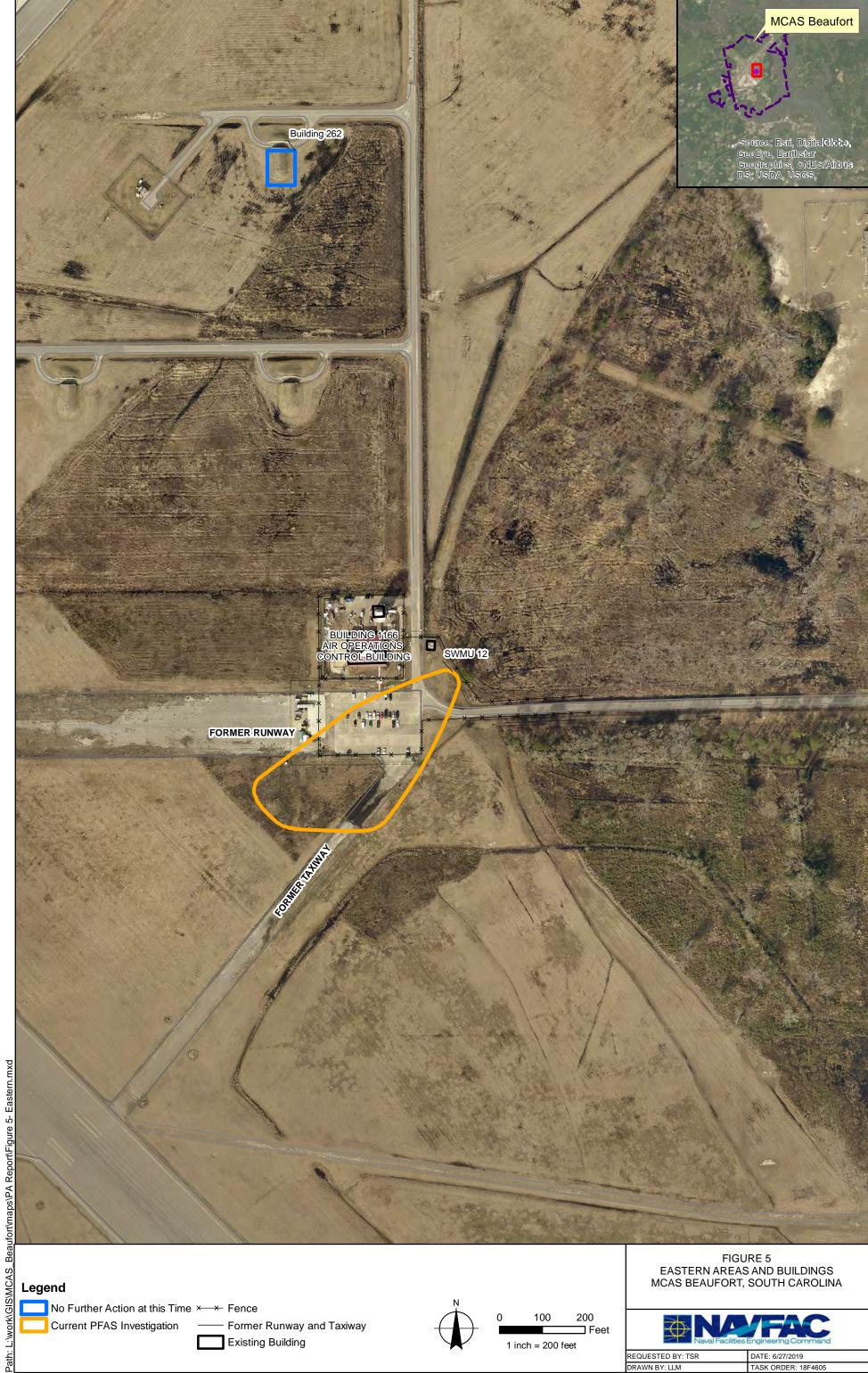
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Former Runway and Taxiway





REQUESTED BY: TSR DATE: 6/27/2019 DRAWN BY: LLM TASK ORDER: 18F4605



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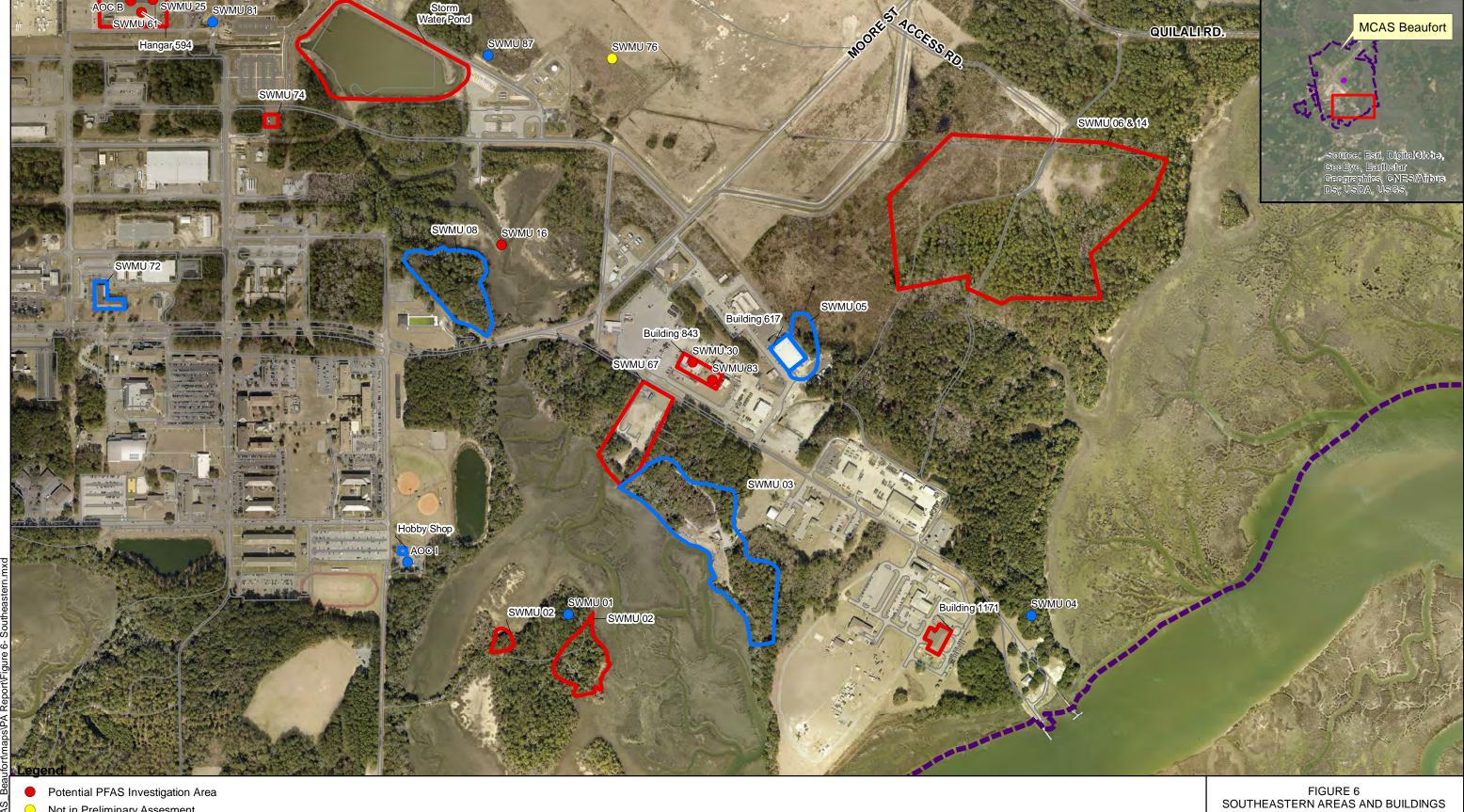
 Former Runway and Taxiway Existing Building



200 ☐ Feet 1 inch = 200 feet



REQUESTED BY: TSR DRAWN BY: LLM



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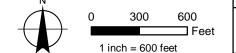
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No Further Action at this Time Potential PFAS Investigation

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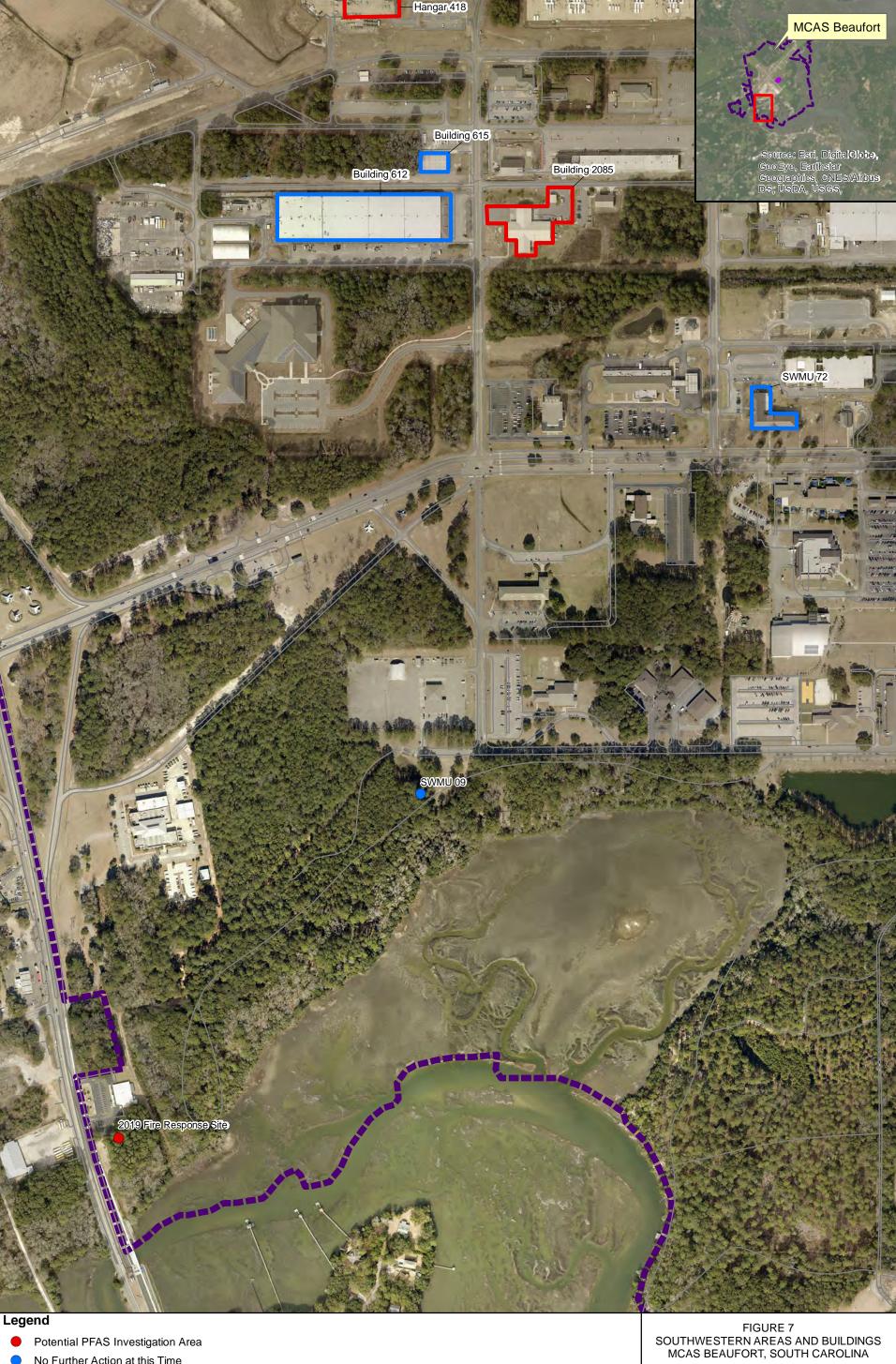
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MCAS BEAUFORT, SOUTH CAROLINA



Naval Facilities Engineering Command
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REQUESTED BY: TSR DRAWN BY: LLM DATE: 6/27/2019 TASK ORDER: 18F4605



Property Boundary No Further Action at this Time

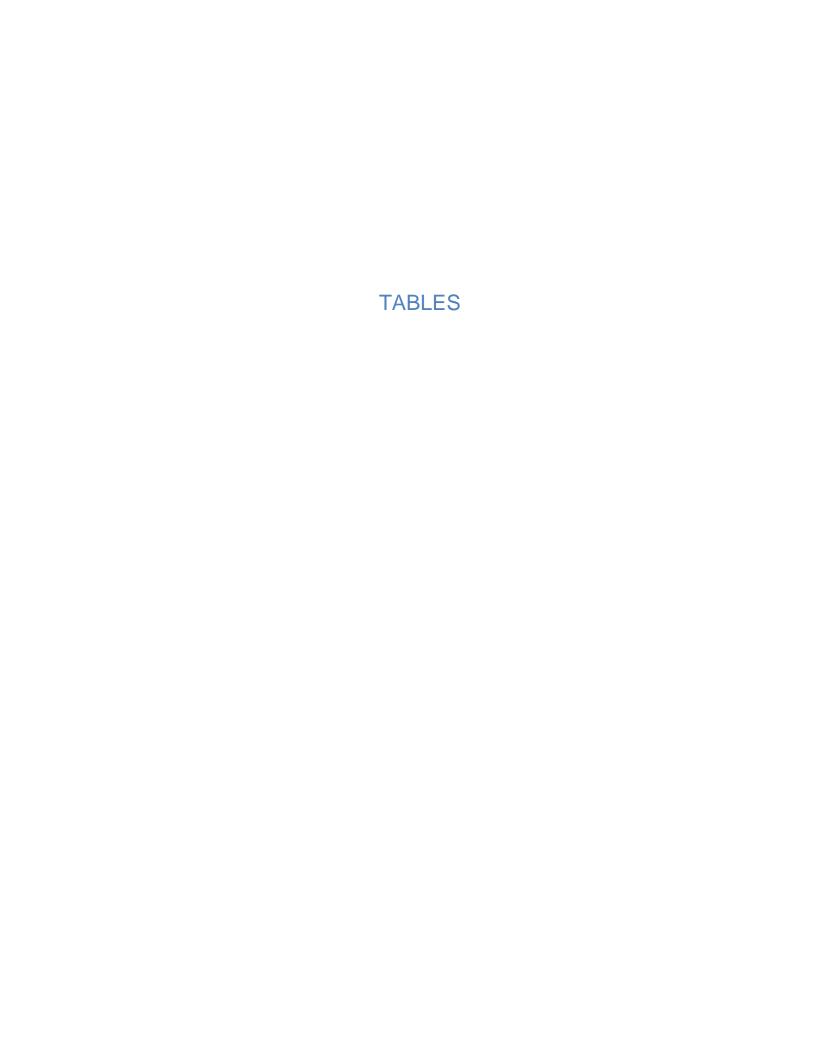
No Further Action at this Time Potential PFAS Investigation Former Runway and Taxiway



400 ☐ Feet 1 inch = 400 feet



REQUESTED BY: TSR



### Table 1

# Sites Reccomended for NFA PFAS Preliminary Assessment MCAS Beaufort, Beaufort, South Carolina

Building/Area Name	Location	Years of Operation	Potential PFAS Release Mechanism	Current Status	Recommended Path Forward
SWMU 75 - Hazardous Waste Container Storage Facility	On NREAO Loop	Unknown- present	Potential storage of waste PFAS-containing materials. Storage of drums containing AFFF contaminated debris and AFFF rinsate	Active	NFA is warranted for SWMU 75 because there is no documented release or evidence of release.
EOD Range	West of northern end of Runway 23	Unknown- present	Fire suppression	Active	NFA is warranted for the EOD Range because firefighting activities only involve the use of water. No AFFF is used in fire response at this site.
SWMU 89-Surface Debris Area	Near intersection of Funa Futi Road E and RC West Road N	Unknown	Waste Disposal	Inactive	NFA is warranted for SWMU 89 because there is no evidence to suggest that AFFF or AFFF impacted debris were disposed of in this area.
SWMU 17-Funa Futi Disposal Area	Adjacent to Cala Way	1960's and 1970's	Waste Disposal	Inactive	NFA is warranted for SWMU 17 because there is no evidence to suggest that AFFF or AFFF impacted debris were disposed of in this area.
SWMU 80-Oil Water Separator (Wash Rack 953)	Adjacent to Hangar 738	Unknown- present	Runoff potentially containing PFAS-containing material.	Active	NFA is suggested by Navy guidance for washing areas.
SWMU 81-Oil Water Separator (Wash Rack 959)	Adjacent to Hangar 594	Unknown- present	Runoff potentially containing PFAS-containing material.	Active	NFA is suggested by Navy guidance for washing areas.
Building 1270-Joint Hazmin Center	At the intersection of 2nd Avenue and C-Street	Unknown- present	Storage of unused AFFF.	Active	NFA is warranted for Building 1270 because there is no documented release or evidence of release.
Building 262-ARFF Bunker	On Tacan Loop, off of Bunker Avenue	Unknown- present	Storage of unused AFFF.	Active	NFA is warranted for Building 262 because there is no documented release or evidence of release.
Building 612-ARFF Warehouse	On Fire Lane Road	Unknown- present	Storage of unused AFFF.	Active	NFA is warranted for Building 612 because there is no documented release or evidence of release.
Building 2145-Pilot Training Building	At the western end of Lightning Drive	Unknown- present	AFFF stored in AST associated with fixed fire suppression system	Active	NFA is warranted for Building 2145 because there is no documented release or evidence of release.
SWMU 72-Base Photo Lab	At the intersection of Geiger Boulevard and Elrod Street	1955-present	Use/storage of photograph developing solution.	Active	NFA is warranted for SWMU 72 because no documentation could confirm PFAS were an active component in the developing solution, and any potential release would have been limited.
Auto Hobby Shop	At the intersection of Delalio Avenue and South Kavieng Street	Unknown- present	Potential storage or use of PFAS-containing materials.	Active	NFA is suggested by Navy guidance for areas that do not have AFFF or significant releases of other PFAS-containing products
Building 617-ATSI Warehouse	On Engineer Avenue	Unknown- present	Storage of unused AFFF.	Active	NFA is warranted for Building 617 because there is no documented release or evidence of release.
SWMU 5-Pesticide Residue Pit Area	Adjacent to building 617	1956-1979	Pesticide disposal.	Inactive	NFA is warranted for SWMU 5 because records indicate the pesticides disposed of did not contain PFAS.

#### Table 1

### Sites Reccomended for NFA PFAS Preliminary Assessment

### MCAS Beaufort, Beaufort, South Carolina

Building/Area Name	Location	Years of Operation	Potential PFAS Release Mechanism	Current Status	Recommended Path Forward
SWMU 8-Kavieng Street Landfill	Adjacent to building 610	1955-1957	Waste Disposal	Inactive	NFA is warranted for SWMU 8 because no confirmed disposal after 1960 occurred.
SWMU 4-Southeast Disposal Area	At the southeastern end of Geiger Boulevard	1950's or 1960's	Waste Disposal	Inactive	NFA is warranted for SWMU 4 because records indicate only inert debris (construction debris, drums, trash) were disposed of in this area.
SWMU 3-Borrow Pit Landfill	Adjacent to building 1152	1957-1958	Waste Disposal	Inactive	NFA is warranted for SWMU 3 because no confirmed disposal after 1960 occurred.
SWMU 1 - Fenced Hazard Area	Northeast corner of the unnamed island off of Lafrene Road	mid-1960's	Waste Disposal	Inactive	NFA is warranted for SWMU 1 because there is no evidence to suggest that PFAS were an active component in the materials disposed of at this location.
SWMU 84 - Pistol Range Landfill	East of the Pistol Range located on Pistol Range Road	1978-1980	Waste Disposal	Inactive	NFA is warranted for SWMU 84 because records indicate only inert debris (wood pieces, scrap metal, trash) were disposed of in this area.
SWMU 9 - Former Lube Oil Pit	To the south of Building 1150	Unknown-1974 (authorized), and 1974-1984 (unauthorized)	Concrete pit used for changing vehicle motor oil and minor repair work.	Inactive	NFA is warranted for SWMU 9 because no documentation could confirm PFAS were an active component in the materials used at this location.
SWMU 76 - Former Incinerator Disposal Area	Northeast of Tank Farm B	Unknown-mid 1950's	Underground concrete tank and surface debris.	Inactive	NFA is warranted for SWMU 76 because no confirmed disposal after 1960 occurred and no documentation could confirm PFAS were an active component in the materials disposed of in this area.
SWMU 77- Acid Neutralization Pit	Northwest of Drayton Street and 2nd Street intersection	Unknown	Underground concrete vault used as an acid neutralization pit.	Inactive	NFA is warranted for SWMU 77 because there is no evidence to suggest that PFAS were an active component in the materials disposed of at this location.
SWMU 85 - Automotive Debris Pile	Northwest of the end of Runway 14	Unknown	Waste Disposal	Inactive	NFA is warranted for SWMU 85 because there is no evidence to suggest that AFFF or AFFF impacted debris were disposed of in this area.
SWMU 87 - 1940's Era Wastewater Treatment Plant	Adjacent to the northeastern margin of the storm water pond	1942-1946	Wastewater Treatment Plant	Inactive	NFA is warranted for SWMU 87 because the treatment plant was decommissioned prior to 1960.
lotes:		DEAC Dam Amali	Polyfluoroalkyl Substances		•

Notes:

AFFF - Aqueous Film Forming Foam

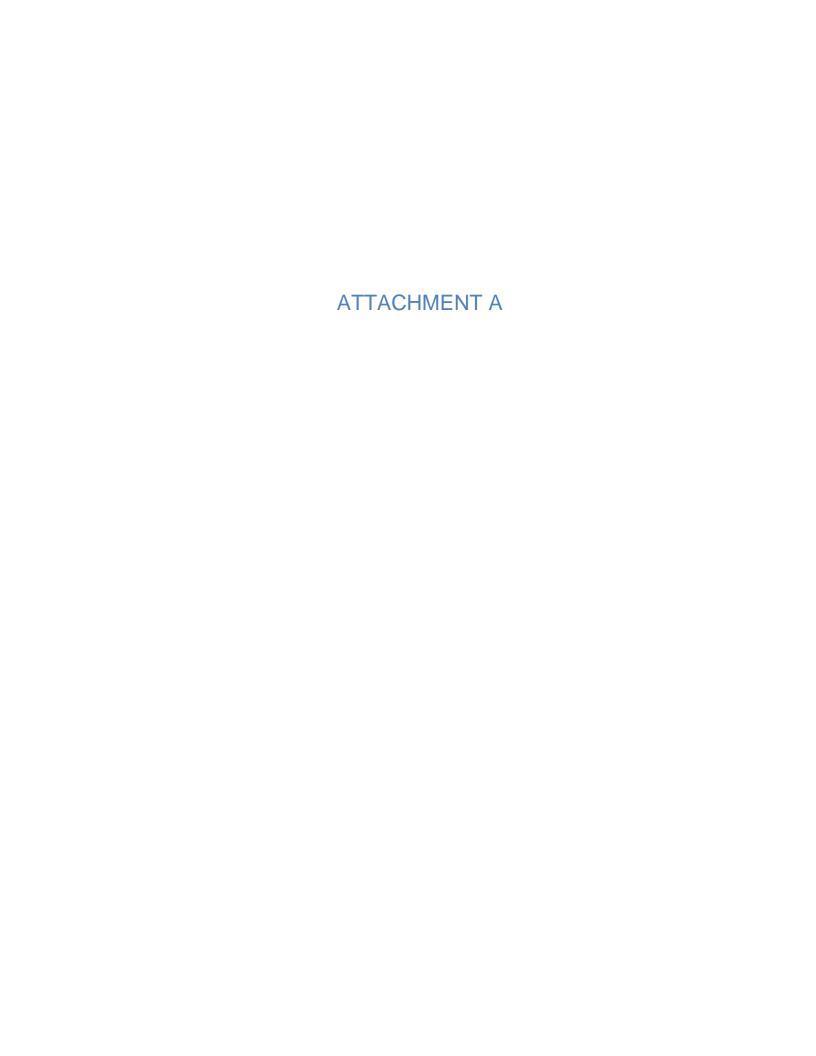
AOC - Area of Concern

ARFF - Aircraft Rescue and Fire Fighting ATSI - AHTNA Technical Services, Inc.

EOD - Explosive Ordnance Disposal

NFA - No Further Action

PFAS - Per- And Polyfluoroalkyl Substances SWMU - Solid Waste Management Unit



## Attachment A AFFF Storage Inventories PFAS Preliminary Assessment MCAS Beaufort, Beaufort, South Carolina

										AFFF Co Product) I					insate or Invento		minated Removal						of these must be ulated
Installation Name	Generator DoDAAC	Generator Status LQG, SQG, VSQG (If Known)	Generator EPA ID #	Physical Address and Bldg # for Pickup	POC Names(s) for Coordinating Removals	POC Email(s) for Coordinating Removals	POC Commercial Phone #(s) *Not DSN*	Forklift & Operator Available to Assist?	Normal Business Hrs Example: M-F 0800-1600	5-Gal Pails (Each)	55-Gal Drums (Each)	Any Size Totes (Each)		Pails	Drums .	Any Size Totes Each)	Bulk Other Than Totes (Gal)	Total Quantity	Notes	AFFF Manufacture	Nomenclature / Trade Name	Manufa cturer Date*	Shelf- Life Date*
MCAS Beaufort		LQG	SC1750216169	Structural Fire Department, Bldg 2085	Chief Darran Vaughn	darran.vaughn@usmc.mil	843-228-7293	Υ	M-F 0800-1600	0	0	0	0	0	0	0	0	0		NA	NA	NA	NA
MCAS Beaufort	M00273	LQG	SC1750216169	ARFF, Bldg 1313	Sgt Timothy Sunday	timothy.sunday@usmc.mil	843-228-6289	Υ	M-F 0800-1600	1	0	0	0	0	0	0	0	5		National Foam		Pre 6/16	6 NA
MCAS Beaufort	M00273	LQG	SC1750216169	ARFF, Bldg 612, Warehouse	Sgt Timothy Sunday	timothy.sunday@usmc.mil	843-228-6289	Υ	M-F 0800-1600	161	0	0	0	0	0	0	0	805		ANSULITE	ANSULITE 3% POLAR SOLVENTS	11/11	NA
MCAS Beaufort	M00273	LQG	SC1750216169	ARFF, Bldg 612, Warehouse	Sgt Timothy Sunday	timothy.sunday@usmc.mil	843-228-6289	Υ	M-F 0800-1600	200	0	0	0	0	0	0	0	1,000		ICL PERFORMANCE PRODUCTS	PHOS-CHEK 3% AFFF	9/16	NA
MCAS Beaufort	M00273	LQG	SC1750216169	ARFF, Bldg 262, Bunker	Sgt Timothy Sunday	timothy.sunday@usmc.mil	843-228-6289	Υ	M-F 0800-1600	21	0	0	0	0	0	0	0	105		ANSULITE	ANSULITE 3% POLAR SOLVENTS	Pre 6/16	5 NA
MCAS Beaufort	M00273	LQG	SC1750216169	ARFF, Bldg 262, Bunker	Sgt Timothy Sunday	timothy.sunday@usmc.mil	843-228-6289	Υ	M-F 0800-1600	109	0	0	0	0	0	0	0	545		ICL PERFORMANCE PRODUCTS	PHOS-CHEK 3% AFFF	9/16	NA
MCAS Beaufort		LQG	SC1750216169	Joint Hazmin Center (JHC), Bldg 1270	Walter McCall	walter.mccall@usmc.mil	843-228-7295	Υ	M-F 0800-1600	3	0	0	0	0	0	0	0	15		ICL PERFORMANCE PRODUCTS	PHOS-CHEK 3% AFFF	9/16	NA
MCAS Beaufort		LQG	SC1750216169	Joint Hazmin Center (JHC), Bldg 1270	Walter McCall	walter.mccall@usmc.mil	843-228-7295	Υ	M-F 0800-1600	1	0	0	0	0	0	0	0	5		ICL PERFORMANCE PRODUCTS	PHOS-CHEK 3% AFFF	12/15	NA
MCAS Beaufort		LQG	SC1750216169	NREAO, Tank 979	Chris Vaigneur	christopher.vaigneur@usmc.mil	843-228-6461	Υ	M-F 0800-1600	0	0	0	0	0	0	0	427	427	Waste Tank	AFFF Rinsate	NA	NA	NA
MCAS Beaufort		LQG	SC1750216169	NREAO, Bldg 1205	Chris Vaigneur	christopher.vaigneur@usmc.mil	843-228-6461	Υ	M-F 0800-1600	1	8	0	0	0	0	0	0	445		Various	Various	Pre 6/16	5 NA
MCAS Beaufort		LQG	SC1750216169	NREAO, Bldg 1205	Chris Vaigneur	christopher.vaigneur@usmc.mil	843-228-6461	Υ	M-F 0800-1600	0	7	0	0	0	0	0	0	385	Waste Drum	Debris c/w AFFF	NA	NA	NA
MCAS Beaufort		LQG	SC1750216169	NREAO, Bldg 1205	Chris Vaigneur	christopher.vaigneur@usmc.mil	843-228-6461	Υ	M-F 0800-1600	0	0	0	0	0	3	0	0	165	Waste Drum	AFFF Rinsate	NA	NA	NA
MCAS Beaufort		LQG	SC1750216169	ATSI Warehouse 617	Molly Grissom	mgrissom@ahtna.net	843-228-6129	Υ	M-F 0800-1600	0	12	0	0	0	0	0	0	660		Chem-Guard	3%	7/31/15	i NA
MCAS Beaufort		LQG	SC1750216169	ATSI Warehouse 617	Molly Grissom	mgrissom@ahtna.net	843-228-6129	Υ	M-F 0800-1600	0	3	0	0	0	0	0	0	165		Chem-Guard	3%	9/4/15	NA
MCAS Beaufort		LQG	SC1750216169	ATSI Warehouse 617	Molly Grissom	mgrissom@ahtna.net	843-228-6129	Υ	M-F 0800-1600	1	0	0	0	0	0	0	0	5		Chem-Guard	3%	NA	NA
MCAS Beaufort		LQG	SC1750216169	ATSI Warehouse 617	Molly Grissom	mgrissom@ahtna.net	843-228-6129	Υ	M-F 0800-1600	0	1	0	0	0	0	0	0	55		Buckeye	3%	NA	NA



### **Attachment A AFFF Storage Inventories PFAS Preliminary Assessment**

# MCAS Beaufort, Beaufort, South Carolina

Unit	Location	Vehicle/System ID	POC	Installed Capacity (gal)	Notes
SFD	Bldg 595	Eng 88	Darran Vaughn	50	3M 6%; Manufacture Date Unknown
SFD	Bldg 595	Eng 89	Darran Vaughn	50	3M 6%; Manufacture Date Unknown
SFD	Bldg 595	Ladder 88	Darran Vaughn	50	3M 6%; Manufacture Date Unknown
ARFF	Bldg 1313	31-FSS (USMC 620630) (TM-280A)	Sgt Timothy Sunday	80	Unknown Brand and Manufacture Date
ARFF	Bldg 1313	31-FSS (USMC 620725) (TM-280A)	Sgt Timothy Sunday	80	Unknown Brand and Manufacture Date
ARFF	Bldg 1313	Truck 15 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
ARFF	Bldg 1313	Truck 16 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
ARFF	Bldg 1313	Truck 17 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
ARFF	Bldg 1313	Truck 18 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1313	Truck 20 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1313	Truck 21 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1313	Truck 22 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1313	Truck 26 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1313	Truck 27 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1313	Truck 28 (P-19)	Sgt Timothy Sunday	130	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1171	USMC 620583 (TM-280A)	Sgt Jason Moxley	80	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1171	Twin-Agent Unit (450/100)	Sgt Jason Moxley	100	Unknown Brand and Manufacture Date
MWSD-31	Bldg 1171	Twin-Agent Unit (450/100)	Sgt Jason Moxley	100	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 728	Fixed System	Joe Otterbine	1,100	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 729	Fixed System	Joe Otterbine	1,100	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 414	Fixed System	Joe Otterbine	6,000	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 418	Fixed System	Joe Otterbine	3,200	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 594	Fixed System	Joe Otterbine	3,200	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 1084	Fixed System	Joe Otterbine	2,000	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 1256	Fixed System	Joe Otterbine	300	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 2145	Fixed System	Joe Otterbine	1,200	Unknown Brand and Manufacture Date
MCAS Beaufort	Hangar 3060	Fixed System	Joe Otterbine	1,800	Chemguard 3%; Manufactured 8/16
MCAS Beaufort	Hangar 1331	Fixed System	Joe Otterbine	1,600	



#### Attachment A

### AFFF Storage Inventories

### PFAS Preliminary Assessment MCAS Beaufort, Beaufort, South Carolina

USMC Fire Protection & Em	nergency Services AFFF in	Fixed System Storage	Tanks							
	Location			AFFF Properties						
Installation	Building Number	Room Number	AFFF Manufacture	Trade Name	Percentage	Manufactured Date	Quantity	Activation	Storage	
MCAS Beaufort	728	Hanger Deck	N/A	AFFF	3%	N/A	1,100	No	No	
MCAS Beaufort	729	Hanger Deck	N/A	AFFF	3%	N/A	1,100	No	No	
MCAS Beaufort	414	Mechanical Rm	N/A	AFFF	3%	N/A	6,000	No	No	
MCAS Beaufort	418	Mechanical Rm	N/A	AFFF	3%	N/A	3,200	No	No	
MCAS Beaufort	594	RM 144 & 151	N/A	AFFF	3%	N/A	3,200	No	No	
MCAS Beaufort	1084	Hanger Deck	N/A	AFFF	3%	N/A	2,000	No	No	
MCAS Beaufort	1256	RM 208	N/A	AFFF	3%	N/A	300	Yes	Yes	
MCAS Beaufort	2145	RM 128	N/A	AFFF	3%	N/A	1,200	Yes	Yes	
MCAS Beaufort	2146		NA	AFFF	TBD	TBD	1,600	Yes	Yes	



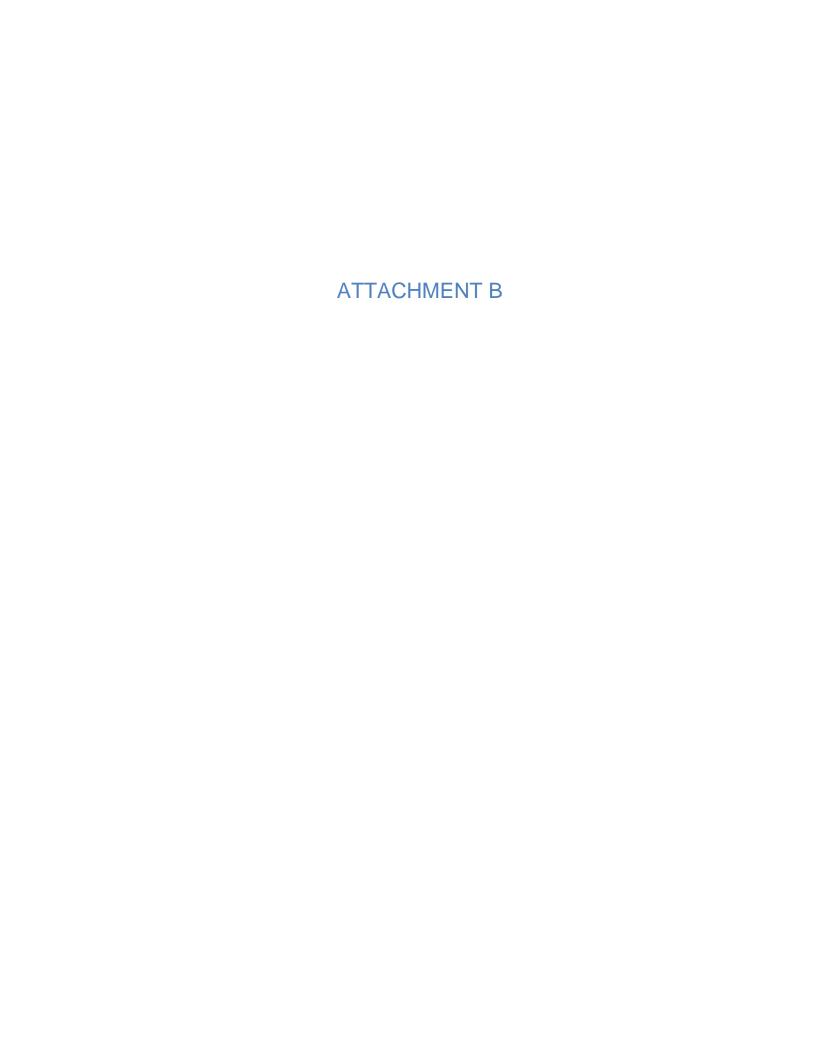
#### **Attachment A**

### AFFF Storage Inventories PFAS Preliminary Assessment

#### MCAS Beaufort, Beaufort, South Carolina

<b>USMC Fire Protection &amp; Emer</b>	gency Services	AFFF in Apparatus or	Equipment Storage T	anks								
A	pparatus			AFFF Properties								
Installation	Vehicle ID	Vehicle Type	AFFF Manufacture	Trade Name	Percentage	Manufactured Date	Quantity (gallon)					
MCAS Beaufort	620583	TM-280A	Unknown	NA	NA	N/A	80					
MCAS Beaufort	Uknown	TAU	Unknown	NA	NA	N/A	100					
MCAS Beaufort	Uknown	TAU	Unknown	NA	NA	N/A	100					
						Total	280					





# SPILL REPORT FORM Marine Corps Air Station, Beaufort, South Carolina

### MEMORANDUM

From:	Molly Grissom, ATSL: ES & A Migr.
To:	Environmental Affairs Officer
Via:	
Subj:	HM/HW/POŁ SPILL REPORT
Ref:	(a)
1. In	compliance with reference (a), the following report of a hazardous nce/petroleum, oil, lubricants (POL) spill/release is made:
a.	Date of incident: 7/25/2011 Time of Incident: 0926 hrs
b.	Person Reporting; Name: Vinny Francesc Rank: Civ
c.	Location; Unit/Activity: HUSH HOUSE Bldg:
đ	11
e.	- Ctops Took Matains AETE Koke
	at values. HFFF BCHRED the containment Derm + enter drain
f.	Mally Corres
g	NOTIFICATION: Work Hrs After Hrs Time Called
	(1) NREAO MANDATORY (6461/6458) (911) 0920 hrs.
	(2) PMO Emergency Dispatcher (AS REQUIRED) (911)
h	. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):
	Valves on Storage Lanks lightened, Spill Cleaned using
	absorbent white cotton met obtained from NREAD as
	Well as recycloble blue mats. Drained Covered to prevent
	absorbant cooms around inside perimoter of berm.
SUPE	RVISOR'S SIGNATURE:
	maily Busson

### SPILL REPORT FORM MARINE CORPS AIR STATION BEAUFORT

MEMORANDUM
From: Q. Brown 1 Motor T MANT. To: Environmental Affairs Officer
Via: Subj: HM/HW/POL SPILL REPORT
Ref: (a)
1. In compliance with reference (a), the following report of a hazardous substance/petroleum, oil, lubricants (POL) spill/release is made:  a. Date of incident: 1962 3, 2011 Time of Incident: 14/5
b. Person Reporting; Name: L, WUN FRANCESE Rank: CIV.
c. Location; Unit/Activity: MOTO_T. MANTENCE Bldg: 843
d. Substance: AFF Amount(Gallons): 100 GAL
e. Description/details of events Mechanic ups Told The Track ups suffy. When He Removed A like for maintence, the AFFF Shilled OUT. MEHO ups Called and Residual IN TEN MINITED.  f. On-scene Supervisor: MR R. Brown
g. NOTIFICATION:  (1) NREAO MANDATORY  Work Hrs. After Hrs. TIME CALLED (911)
(2) PMO Emergency Dispatcher (AS REQUIRED) (911)
h. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken): MOTOZ T' WOLKELD CONTAINED The SPILL WAS
4580n A Hard PAVED SUFFACE. 5% dirt zufnie.
IN The futire Times will be chelled before montence
SUPERVISOR'S SIGNATURE

### SPILL REPORT FORM

Marine Corps Air Station, Beaufort, South Carolina

### **MEMORANDUM**

From:	VMFA (AW)- 533
To:	Environmental Affairs Officer
Via:	
Subj:	HM/HW/POL SPILL REPORT
Ref:	(a)
1. In substar	compliance with reference (a), the following report of a hazardous nce/petroleum, oil, lubricants (POL) spill/release is made:
a.	Date of incident: 120626 Time of Incident: 1700
b.	Person Reporting; Name: Dugherty, Tobert Rank: CPL
C.	Location; Unit/Activity: 535 hanger Bldg: 4/8
d.	Substance: AFFF FORM Amount (Gallons): 7, 100
e.	Description/details of events: AFFF dispensers went of covering
f.	On-scene Supervisor: Capt Walled
g.	NOTIFICATION: Work Hrs After Hrs Time Called
	(1) NREAO MANDATORY (7370) (911) On Site
	(2) PMO Emergency Dispatcher (AS REQUIRED) (911)
h.	ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  LCPL BRUDZYNSKI accidentally set off a fire  alarm when walking past if she claim that her shoulder  nudged it as she furned around next to it.
SUPERV	VISOR'S SIGNATURE: The State of CHI/628

### SPILL REPORT FORM

Marine Corps Air Station, Beaufort, South Carolina

### MEMORANDUM

From:	
To:	Environmental Affairs Officer
Via:	
Subj:	HM/HW/POL SPILL REPORT
Ref:	(a)
1. In substan	compliance with reference (a), the following report of a hazardous nce/petroleum, oil, lubricants (POL) spill/release is made:
a.	Date of incident: $\frac{2}{12}$
b.	Person Reporting; Name: Fire Dept Rank:
c.	Location; Unit/Activity: VMFA - 122 Bldg: 414
d.	Substance: AFFF Amount (Gallons): 60
e.	Description/details of events: An AFFF tank NISS
	pumped down to avoid freezing damage
f.	On-scene Supervisor: Todd Lawson
g.	NOTIFICATION: Work Hrs After Hrs Time Called
	(1) NREAO MANDATORY (6461/6458) (911)
	(2) PMO Emergency Dispatcher (AS REQUIRED) (911)
h.	ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):
	AFFF deposited into Tan 979
	7
SUPER	VISOR'S SIGNATURE:

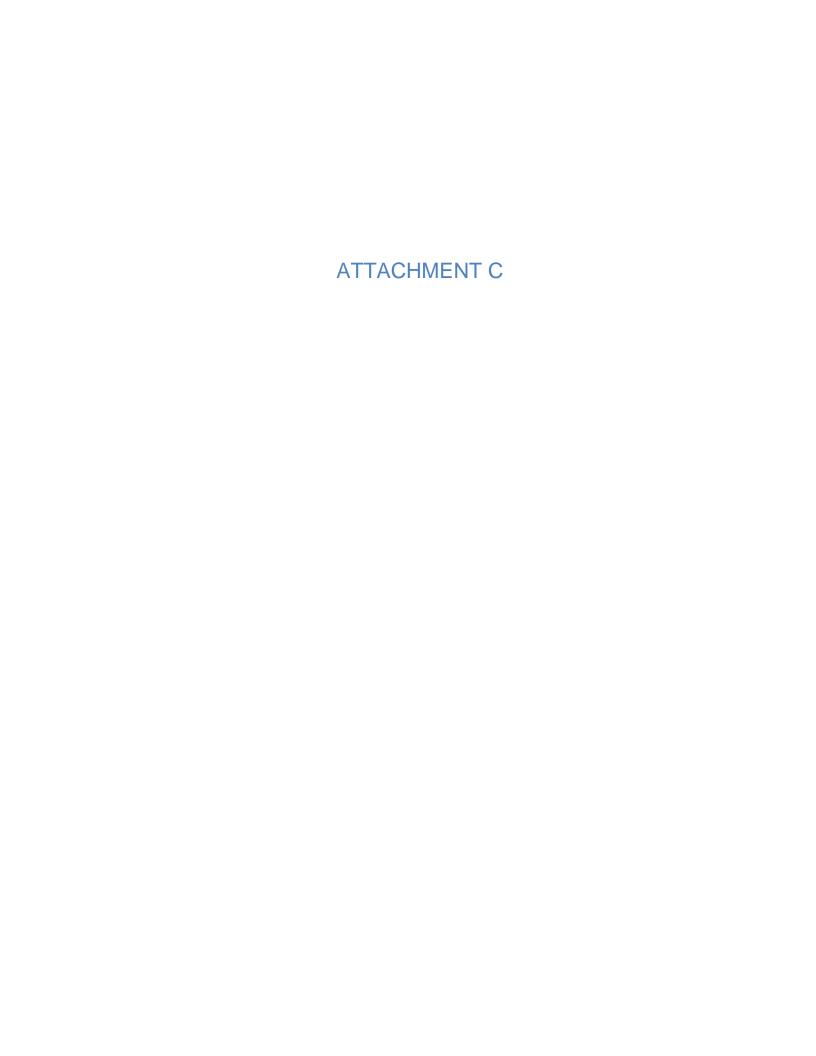
### SPILL REPORT FORM MARINE CORPS AIR STATION BEAUFORT

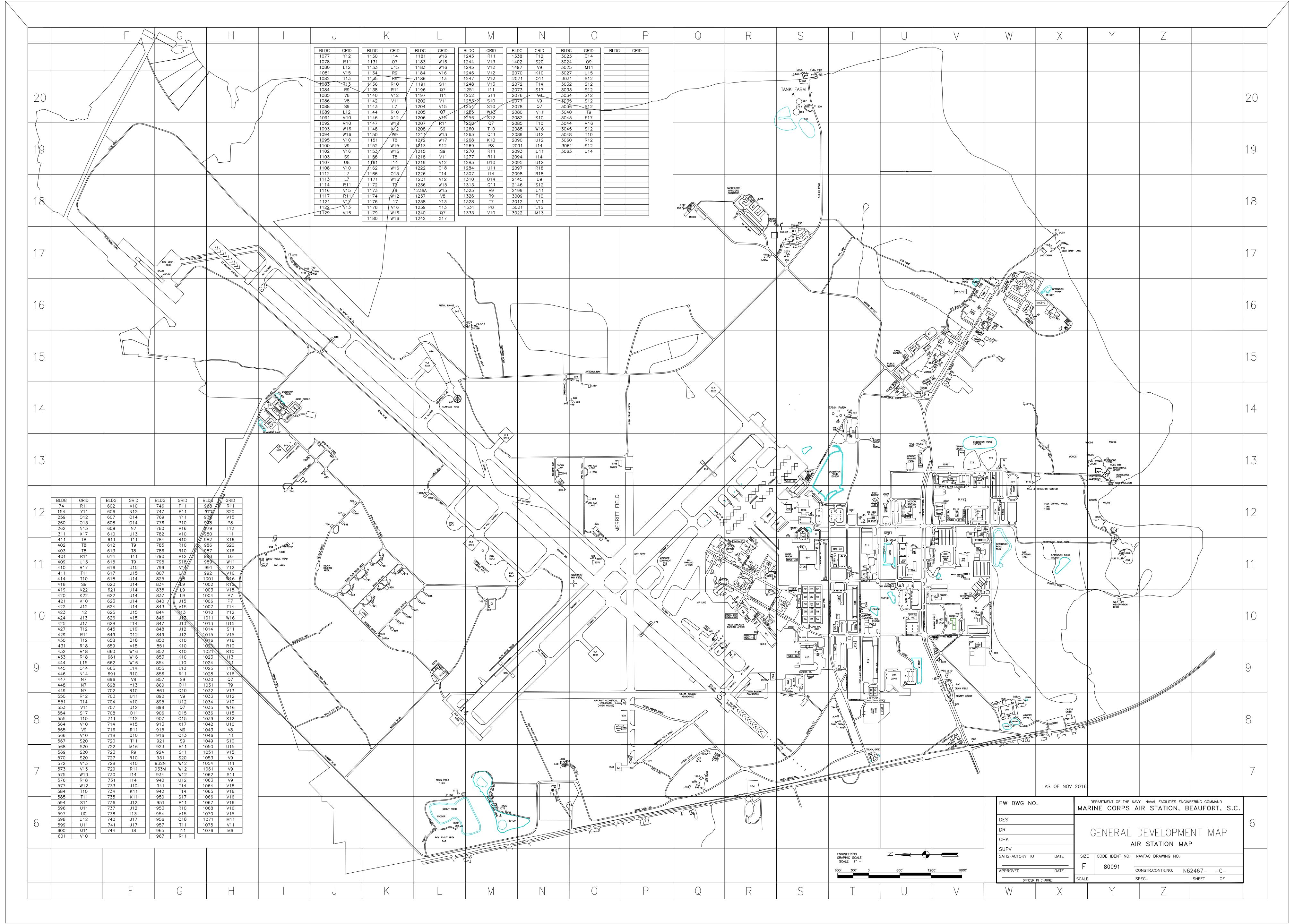
o: Environmental Affairs Officer ia: MAG-31 Environmental ubj: HM/HW/POL SPILL/RELEASE REPORT  ef: (a) MCO P5090.2A	From:	VMFA-122			Date: 10/	78/10
(a) MCO P5090.2A (b) MCAS Beaufort Hazardous Waste Management Plan  In compliance with the references, the following report of a hazardous ubstance/petroleum, oil, lubricants (POL) spill/release is made:  a. Date of Incident: DT Handes  b. Location of Incident: LT Handes  c. Person Reporting; Name: Ly Wolfe  d. Unit/Activity: LT Handes Exe cannors  e. Substance: AFFF  Amount(Gallons): 275 gal  f. Description/details of events  off at BOO  g. On-scene Supervisor: Sgt Yound on 16/27 /pp wolfe no 1  h. Notification: Mandatory to call NTRAO and MAG HazMat for every spill:  Work Hrs. After Hrs. TIME CALLED  1) NREAO  (7907/7370) (911)  2) PMO Dispatcher  (AS REQUIRED) (911)  1. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions caken):  MT 1733 on 16/27 Symma could public works because	o: la:	Environmental Affairs			17	
(b) MCAS Beaufort Hazardous Waste Management Plan  In compliance with the references, the following report of a hazardous ubstance/petroleum, oil, lubricants (POL) spill/release is made:  a. Date of Incident: Def // Time of Incident:  b. Location of Incident: Def // Time of Incident:  b. Location of Incident: Def // Time of Incident:  c. Person Reporting; Name: Let Wolfe Rank: Let Y475  d. Unit/Activity: Def Ingue Gue Cannons Ext: Y475  e. Substance: AFFF Amount(Gallons): 275 gal  f. Description/details of events Def 10/27 AFFF Cannons  g. On-scene Supervisor: Set Yound on 16/27 Let Unife not  h. Notification: MANDATORY to call NTEAO and MAG HazMat for every spill:  Work Hrs. After Hrs. TIME CALLED  1) NREAO (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  3) MAG-31 HazMat (6528/6529) (575-7140)  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions caken):  AT 1753 en 19/27 53* Young Could public works because A	ubj:	HM/HW/POL SPILL/RELEA	SE REPORT			
a. Date of Incident: Def // Time of Incident:  b. Location of Incident: Def // Time of Incident:  b. Location of Incident: Def // Time of Incident:  b. Location of Incident: Def // Time of Incident:  c. Person Reporting; Name: Cf wolft Rank: Cf/  d. Unit/Activity: Def hour fire convers  e. Substance: AFFF Amount(Gallons): 275 gal  f. Description/details of events Def // AFFF Cumments  g. On-scene Supervisor: Sgt Yound on 10/27 / Cf volfo no  h. Notification: MANDATORY to call NTEAO and MAG HazMat for every spill:  Work Hrs. After Hrs. Time Called  1) NREAO (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  3) MAG-31 HazMat (6528/6529) (575-7140)  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions caken):  AT 1753 on 1967 53+ Young could public works because Amounts (1960)	ef:		ardous Waste M	Management Pla	n	
b. Location of Incident: 122 Hander  c. Person Reporting; Name: 4/ wolfe Rank: 6/  d. Unit/Activity: 122 Amour Give convors  e. Substance: AFFF Amount (Gallons): 275 gal  f. Description/details of events On 10/27 AFFF Campons  wont off at 1800  g. On-scene Supervisor: 50 t young on 16/27 / 4 wolfe no 1  h. Notification: Mandatory to call NTEAO and MAG Hazmat for every spill:  Work Hrs. After Hrs. TIME CALLED  1) NREAO (7907/7370) (911) 1800  2) PMO Dispatcher (AS REQUIRED) (911) 1800  3) MAG-31 Hazmat (6528/6529) (575-7140) 1860  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  MT 1783 on 1927 534 young collect public works because 1	. In	compliance with the rnce/petroleum, oil, lu	references, the abricants (POL)	e following re ) spill/releas	eport of a haza e is made:	rdous
c. Person Reporting; Name: C// Wolfe Rank: C//  d. Unit/Activity: 1/2 Honger Give cannons Ext: 7475  e. Substance: AFFF Amount (Gallons): 275 gal  f. Description/details of events On 10/27 AFFF Cannons  wint off at 1800  g. On-scene Supervisor: 50 t Yound on 10/27 / Lpl Volleo no  h. Notification: MANDATORY to call NTEAO and MAG Hazmat for every spill!  Work Hrs. After Hrs. Time CALLED  1) NREAO (7907/7370) (911) 1800  2) PMO Dispatcher (AS REQUIRED) (911) 1800  3) MAG-31 Hazmat (6528/6529) (575-7140) 1860  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  M 1783 on 1967 53+ Young collect public works because 1	a.	Date of Incident:	75-/U T	ime of Incider	it:	
d. Unit/Activity: 122 theor fine cannons Ext: 7475  e. Substance: AFFF Amount (Gallons): 275 gal  f. Description/details of events On 10/27 AFFF Cannons  Sunt Off At 1800  g. On-scene Supervisor: Sat Yound on 16/27 (p) Wolfo no 1  h. Notification: MANDATORY to call NTEAO and MAG HazMat for every spill:  Work Hrs. After Hrs. TIME CALLED  1) NREAO (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  1800  1. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions caken):  M 1733 on 1967 53+ Young collect public works because A	b.	Location of Incident	: 122 Hand	ser	Bldg: U14	
e. Substance: AFFF  Amount (Gallons): 275 gal  f. Description/details of events On 10/17 AFFF Curnons  yent off at 1800  g. On-scene Supervisor: Ggt Yound on 16/17 pl vol60 no  h. Notification: MANDATORY to call NTEAO and MAG HazMat for every spill:  Work Hrs. After Hrs. TIME CALLED  1) NREAO (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  3) MAG-31 HazMat (6528/6529) (575-7140)  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions caken):  M 1733 on 19/17 53+ Young collect public works because M	c.	Person Reporting; Na	ame: 41 wo	162	Rank: 'CP	
e. Substance: AFFF  f. Description/details of events On 10/77 AFFF Campens  g. On-scene Supervisor: SQT Yound on 10/27 (p) 10/160 no 1  h. Notification: MANDATORY to call NTEAO and MAG Hazmat for every spill!  Work Hrs. After Hrs. TIME CALLED  1) NREAO (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  3) MAG-31 Hazmat (6528/6529) (575-7140)  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions caken):  M 1733 on 19/7 53+ Young collect public works because M	d.	Unit/Activity: 122	Honger Fine C	annors	Ext: 74	75
g. On-scene Supervisor: Ggt Young on 16/27 pl voice no 1  h. Notification: MANDATORY to call NTEAO and MAG HazMat for every spill!  Work Hrs. After Hrs. TIME CALLED (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  3) MAG-31 HazMat (6528/6529) (575-7140)  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions caken):  AT 1133 on 19/27 55+ young collect public works because A	е.				allons): 27	5 gal
h. Notification: MANDATORY to call NTEAO and MAG HazMat for every spill!  Work Hrs. After Hrs. TIME CALLED  (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  3) MAG-31 HazMat (6528/6529) (575-7140)  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  AT 1783 on 1967 53+ young counce public works because		Description/details	of events . On	10/22 A	FFF Comme	1805
h. Notification: MANDATORY to call NTEAO and MAG HazMat for every spill!  Work Hrs. After Hrs. TIME CALLED  (7907/7370) (911)  2) PMO Dispatcher (AS REQUIRED) (911)  3) MAG-31 HazMat (6528/6529) (575-7140)  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  AT 1783 on 1967 53+ young counce public works because						
1) NREAO (7907/7370) (911) 1800  2) PMO Dispatcher (AS REQUIRED) (911) 1800  3) MAG-31 HazMat (6528/6529) (575-7140) 1860  i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  AT 1733 on 1917 53+ young collect public works because 1			Sgt you	00 10/2	7/cpl wol	60 no 10
i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  AT 1783 on 1967 53+ young could public works because A	g.	On-scene Supervisor:	FORY to call N	TEAO and MAG	HazMat for eve	ry spill!
i. ADDITIONAL COMMENTS (Cause of spill/release and corrective actions taken):  AT 1783 on 1967 53+ young could public works because A	g.	On-scene Supervisor:	FORY to call N Work Hrs.	TEAO and MAG I	HazMat for eve TIME CA	ry spill!
AT 1783 on 1927 53+ young colled public works because 1	g.	On-scene Supervisor: Notification: MANDAT  1) NREAO	Work Hrs. (7907/7370)	After Hrs. (911)	TIME CA	ry spill!
AT 1783 on 1927 59+ young colled public works become 1	g.	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher	Work Hrs. (7907/7370) (AS REQUIRED	TEAO and MAG I After Hrs. (911)	TIME CA	ry spill!
1 15 0 9000 10 10 10 10 10 10 10 10 10 10 10 10	g. h.	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher  3) MAG-31 HazMat  ADDITIONAL COMMENTS	Work Hrs. (7907/7370) (AS REQUIRED (6528/6529)	TEAO and MAG I After Hrs. (911) ) (911) (575-7140)	TIME CA	ry spill!
worked was reactions to 1000 curring went off. 1407	g. h.	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher  3) MAG-31 HazMat  ADDITIONAL COMMENTS	Work Hrs. (7907/7370) (AS REQUIRED (6528/6529) (Cause of spi	TEAO and MAG I After Hrs. (911) ) (911) (575-7140) 11/release and	TIME CA  1800  1800  1800  1800  1800  1800  1800	ty spill!
	j. taken)	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher  3) MAG-31 HazMat  ADDITIONAL COMMENTS:  133 on 1917 55+  50 Was Jeacking And Paco (unc)	Work Hrs. (7907/7370) (AS REQUIRED (6528/6529) (Cause of spi	After Hrs. (911) ) (911) (575-7140) ll/release and	TIME CA  1800  1800  1800  1800  1800  1800  1800	ctions
SUPERVISOR'S SIGNATURE	i.  caken)  AT II  (annoted)	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher  3) MAG-31 HazMat  ADDITIONAL COMMENTS:  133 on 1917 53+  100 Was reacking and Paco (was	Work Hrs. (7907/7370)  (AS REQUIRED (6528/6529)  (Cause of spi	After Hrs. (911) ) (911) (575-7140) ll/release and	TIME CA  1800  1800  1800  1800  1800  1800  Marks become	ctions
	i.taken)  AT I  (Gnn)  (TIM	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher  3) MAG-31 HazMat  ADDITIONAL COMMENTS:  133 on 1917 55*  100 Was reacking  And Paco (MASSEUPERVISOR'S SIGNATURE	Work Hrs. (7907/7370)  (AS REQUIRED (6528/6529)  (Cause of spi	After Hrs. (911) ) (911) (575-7140)  11/release and public Carrons Uses the right	TIME CA  1800  180	ctions
SUPERVISOR'S SIGNATURE  PIRST ENDORSEMENT  MAG RPT #  Prom: MAG-31 Environmental	i.taken)  AT I  (General Control  FIRST  From:	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher  3) MAG-31 HazMat  ADDITIONAL COMMENTS:  133 on 1917 53+  50 Was reacking And Paco (was SUPERVISOR'S SIGNATURE  ENDORSEMENT  MAG-31 Environmental	Work Hrs. (7907/7370)  (AS REQUIRED (6528/6529)  (Cause of spi	After Hrs. (911) ) (911) (575-7140)  11/release and public Carrons Uses the right	TIME CA  1800  180	ctions
SUPERVISOR'S SIGNATURE  PIRST ENDORSEMENT  MAG RPT #  Prom: MAG-31 Environmental	i.taken)  AT I  (General Control  FIRST  From:	On-scene Supervisor: Notification: MANDAT  1) NREAO  2) PMO Dispatcher  3) MAG-31 HazMat  ADDITIONAL COMMENTS:  133 on 1917 53+  50 Was reacking And Paco (was SUPERVISOR'S SIGNATURE  ENDORSEMENT  MAG-31 Environmental	Work Hrs. (7907/7370)  (AS REQUIRED (6528/6529)  (Cause of spi	After Hrs. (911) ) (911) (575-7140)  11/release and public Carrons Uses the right	TIME CA  1800  180	ctions

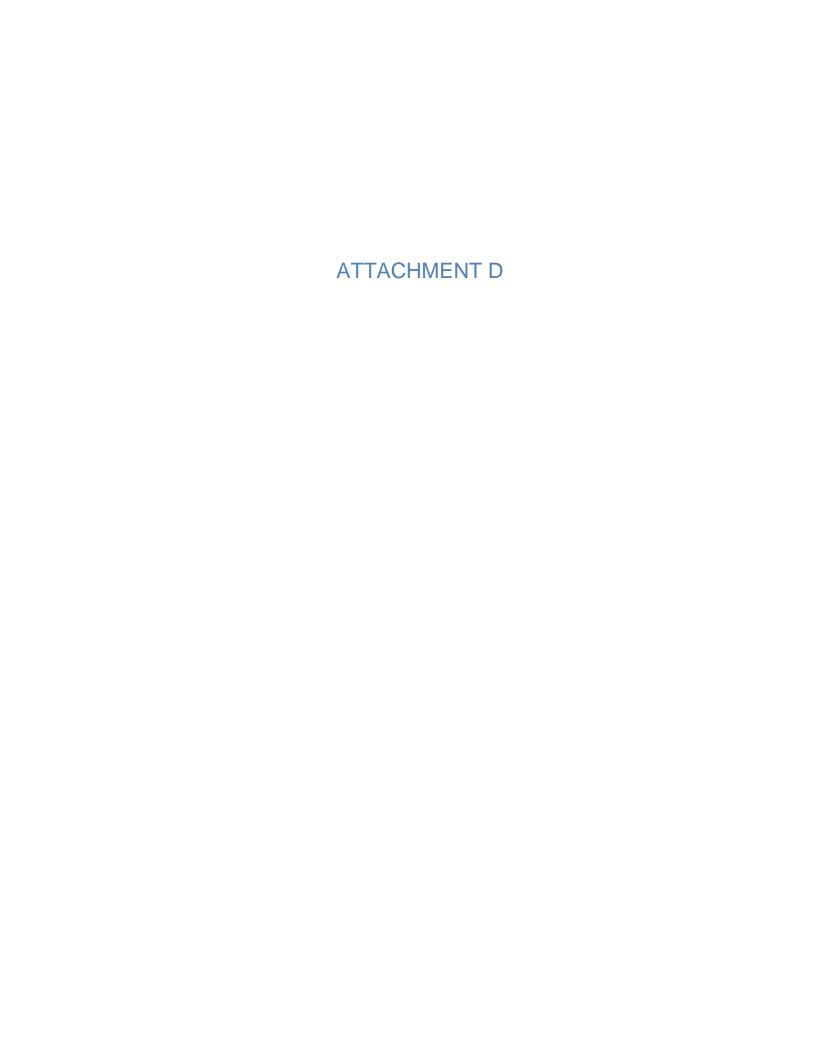
### SPILL REPORT FORM

Marine Corps Air Station, Beaufort, South Carolina

From:	
To:	NREAO, Environmental Compliance Section
Subj:	SPILL REPORT
Ref:	(a) ASO 4570.3A Ch. 2
1. In substa	compliance with reference (a), the following report of a hazardous nce/petroleum, oil, lubricants (POL) spill/release is made:
a.	- 10- 11
b.	Person Reporting; Name: Michael Stephens Rank: Civ
c.	Location; Unit/Activity: Hanger 1 +1+HS Bldg: 1084
d.	Substance: Ansalite 370 AFFF Amount (Gallons): 2 320
e.	Cause/Recovery & Clean-up: File extinguishing agent released
	by cannon: Fire Dept. cleaned Hanger with
	fresh water NREAD + PMO notified by
	MCAS Beaufort Fire Dept.
f.	NOTIFICATION: Work Hrs After Hrs Time Called
	(1) NREAO <u>MANDATORY</u> (6461/6458) (911)
	(2) PMO Emergency Dispatcher *** (911)
SUPER	RVISOR'S SIGNATURE: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1







T	IA.	JN-HAZARDOUS	Generator ID Number		2. Page 1 of 3. Eme			4. Waste Tr	acking Num	iber OI			
		ASTE MANIFEST nerator's Name and Maili	SC1750215169			tor's Site Address		than mailing addre	10	2015-01			
		MARINE CORPS P.O. BOX 55024 BEAUFORT, SC.	AIR STATION/ENVIRON	WENTAL OFFICE	Genera	tor's Site Address	s (ii dinerent t	nan malling addre	ess)				
			43-228-6458										
	6. Tra	Insporter 1 Company Nam	ne V Ac					U.S. EPAID	Number.	10011800			
	7 Tra	Insporter 2 Company Nam			U.S. EPA ID Number								
	7. 110	moportor 2 company rean						U.S. EPA ID I	vumber				
	8. Des	signated Facility Name an	nd Site Address					U.S. EPA ID I	Number				
		36 CLEARWATE	RURIVE					152	630-2001				
Ш		WALTERBORO, y's Phone: 843-89	SC 29488 93-2580/843-599-5764					1					
	1 doing	Waste Shipping Name				10. Conta	iners	11. Total	12. Unit				
		1	1 100 1 100 100 100 100 100 100 100 100			No.	Туре	Quantity	Wt./Vol.				
GENERATOR		1. AFR.O-MET	ER NONHAZARDOUS/N	ON REGULATED	#USW-07004	01	TT	504)	G .				
GEN	- 7	2.											
Ĭ													
		3.											
Ш													
Ш		4.											
		4.											
			ns and Additional Information										
			TOUS WASTE 24 HR	EMERGENCYGO	MINCI BILLY	DRAWERY 8	43-228-	7121 0011					
П		CONTRACT#MR	0169-15-P-SAUS										
Ш													
Ш	14. GE	NERATOR'S/OFFEROR	'S CERTIFICATION: I hereby declare	that the contents of this co	onsignment are fully ar	nd accurately desc	cribed above	by the proper ship	oping name,	and are classified, packaged,			
	1116	ator's/Offeror's Printed/Ty	ed, and are in all respects in proper co	ondition for transport accord	ding to applicable inter	national and nation	onal governm	ental regulations.		Month Day Year			
*		-bin	nothy -u	Tha lev	1	emol	hu L	Who	0000	6 10 15			
INT.L		ernational Shipments	Import to U.S.		Export from U.S.	Port of ent	1	0700	- Marie Mari	E 10 10			
		oorter Signature (for expor	rts only):			Date le vi	.11	1	7/				
TRANSPORTER		orter 1 Printed/Typed Na	me / /		Signature		-/	//	$\leftarrow$	Month Day Year			
SPO	6	smar	(Lomwell			7_	4			6 10 18			
RAN	Transp	porter 2 Printed/Typed Na	me		Signature		/			Month Day Year			
-	17. Dis	screpancy											
1		iscrepancy Indication Spa	ace O	П-		7							
			Quantity	Ш Туре		Residue		Partial Reje	ction	Full Rejection			
	17h A	Iternate Facility (or Generate	rates)		Mani	fest Reference N	umber:						
ILT	11.0. 11	nerriate racinty (or dener	ator)					U.S. EPA ID N	umber				
FAC		's Phone:											
DESIGNATED FACILITY	17c. Si	gnature of Alternate Facil	ity (or Generator)							Month Day Year			
IGN													
DES													
15								1					
1	_	signated Facility wher or	r Operator: Certification of receipt of	naterials covered by the ma		in Hem 17a	7	1/					
K	ineu	Tah	ort the	214	Signature	1		14		Month Day Year			
169	BLC-	O 6 10498 (Rev.	9/09)	120	- 1	je		ESCHATE	DEADU	ITY TO CENTED TO			
								LOIGNAIL	LIPACIL	ITY TO GENERATOR			

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488

Phone: (843) 893-2580 Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC,
Hereby certifies all materials described in
Manifest / Bill of Lading # 06102015-01
Were disposed of in compliance with all applicable local,
state and federal regulations on the date of:

### JUNE 10, 2015

For:

# MARINE CORPS AIR STATION/ENVIRONMENTAL OFFICE

NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of 3. Eme	rgency Response Phone	4. Waste Tracking	_
WASTE MANIFEST	SC1750216169		43 228-7121		0609-02
5. Generator's Name and Mai	iling Address S AIR STATION/ENVIRONMEN	General	tor's Site Address (if different	than mailing address)	
P.O. BOX 55024 BEAUFORT, SC	( : 29904				
Generator's Phone: 6. Transporter 1 Company Na	343-228-6458			U.S. EPA ID Numbe	r
	VAC			SCRO	00771899
7. Transporter 2 Company Na	ame			U.S. EPA ID Numbe	
8. Designated Facility Name a	and Site Address			U.S. EPA ID Numbe	r
ABM-AMERICAL 36 CLEARWATE	ERDRIVE			152630	
WALTERBORO Facility's Phone: 943.5	03.2580/843.590.5764				
9. Waste Shipping Nar			10. Containers  No. Type	11. Total 12. U Quantity Wt./\	
1. AER-O-ME	TER NON HAZARDOUS/NON	NREGULATED #USW-07004	01	5000	
2.					
3.					
5.					
4.					
7.					
13 Special Handling Instruction	ons and Additional Information				
	60159-15-P-SA08				
marked and labeled/placa	rded, and are in all respects in proper condit	t the contents of this consignment are fully ar tion for transport according to applicable inter	nd accurately described above mational and national governr	e by the proper shipping in mental regulations.	name, and are classified, packaged,
Generator's Offeror's Printed/	11 1	Signature	'TT	100	Month Day Year
15 International Shipment		The state of the s	mothy L	Maley	6 9 13
15. International Shipment  Transporter Signature (for exp	Import to U.S.	Export from U.S.	Port of entry exit:		
16. Transporter Acknowledgm			Date leaving U.S.:		
Transporter 1 Printed/Typed N	VROMWEV	Signature	4	0	Month Day Yea
Transporter 2 Printed/Typed N	Name	Signature		T	Month Day Year
17. Discrepancy					
17a. Discrepancy Indication S	pace Quantity	Туре	Residue	Partial Rejection	Full Rejection
17b. Alternate Facility (or Gen	erator)	Man	ifest Reference Number:	U.S. EPA ID Numbe	,
Facility's Phone:				1	
17c. Signature of Alternate Fa	cility (or Generator)				Month Day Year
	1			4	
18. Designated Facility Owner	or operator: Certification of receipt of mater	rials covered by the manifest except as notec	lin liem 173 / 1	76	- Thy
Printed Typed Name	h of Ha-	Signature	X // /-		Month Day Year
- 1106	KYT TOG	1 6	De 10	~	69 15
-BLC-O 6 10498 (Rev	v. 9/09)			DESIGNATED F	ACILITY TO GENERATO

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Phone: (843) 893-2580 Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC,
Hereby certifies all materials described in
Manifest / Bill of Lading # 20150609-02
Were disposed of in compliance with all applicable local, state and federal regulations on the date of:

### JUNE 9, 2015

For:

# MARINE CORPS AIR STATION ENVIRONMENTAL OFFICE

NON-HAZARDOUS WASTE MANIFEST	1, Generator ID Number SC1750216169	2. Pa	ge 1 of 3. Emergency Respons		4. Waste Tracki	ing Number
5. Generator's Name and Maili			Generator's Site Addre		an mailing address)	000101
MARINE CORPS P.O. BOX 55024 BEAUFORT, SC:	ÄIR STATION/ENVIRON 29904	MENTAL OFFICE				
	43-228-6458					
6. Transporter 1 Company Nar					U.S. EPA ID Num	000771899
Fenn	VAC				7(1	, 000/11899
7. Transporter 2 Company Nar					U.S. EPA ID Numi	ber
Designated Facility Name ar					U.S. EPA ID Numi	ber
ABM-AMERICAN 36 CLEARWATE					152630	3-2001
WALTERBORO.						
	93-2580/843-509-5764					
9. Waste Shipping Nam	e and Description		10. Con	tainers		. Unit ./Vol.
1. AER-O-MET	ER NON HAZARDOUS/	NONREGULATED #J	SW-07004		5000	G
2.						
3.						
4.						
					1	
13. Special Handling Instruction	ne and Additional Information	*				
CONTRACT#M6						g name, and are classified, packaged,
marked and labeled/placard	led, and are in all respects in proper	condition for transport according to	applicable international and na	tional governme	ntal regulations.	g hame, and are classified, packaged,
Generator's/Offeror's Printed/Ty	/ped Name	1/ /	Signature 1	11.	500	Month Day Year
/i'm	othy w	haley	Sumo	thy L	Unal	ey 69 5
15. International Shipments Transporter Signature (for expo	Import to U.S.		t from U.S. Port of e	enteredit:		/
Transporter Signature (for expo	orts only):	/	Date lea	/ /	/	T
16. Transporter Acknowledgme			, 0	//	7	/
16. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	Romwe	211	Signature	-(/	Ť	Month Day Year
Transporter 2 Printed/Typed Na	ime		Signature			Month Day Year
17. Discrepancy						
17a. Discrepancy Indication Spa	ace Quantity	Туре	Residue		Partial Rejection	Full Rejection
17b. Alternate Facility (or General Facility's Phone:	rator)		Manifest Reference	Number:	U.S. EPA ID Numb	per
Facility's Phone:						
17c. Signature of Alternate Faci	lity (or Generator)					Month Day Year
18. Designated Facility Owner of	or Operator: Certification of receipt of	f materials covered by the manifest	except as noted in Item 17a			
Printed/Typed Name	- Herola	20.	Signature	-/	1	Month Day Year
9-BLC-O 6 10498 (Rev.	9/09)	,		DE	SIGNATED	FACILITY TO GENERATOR

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Phone: (843) 893-2580 Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC,
Hereby certifies all materials described in
Manifest / Bill of Lading # 20150609-01
Were disposed of in compliance with all applicable local, state and federal regulations on the date of:

### **JUNE 9, 2015**

For:

# MARINE CORPS AIR STATION ENVIRONMENTAL OFFICE

WASTE MANIFEST	1. Generator ID Number SC1750216169	2. Page	1 of 3. Emergency Respons		4. Waste Tr	acking Number	08-11
P O BOX 55024 BEAUFORT, SC 2 Generator's Phone:	AIR STATION/ENVIRON 9904 13-228-6458	NMENTAL OFFICE	Generator's Site Addre	ss (if different tha			
Transporter 1 Company Name     Transporter 2 Company Name     Transporter 2 Company Name	VAC 1	Le			U.S. EPA ID	Number Number	17718899
8. Designated Facility Name and	RORIVE				U.S. EPA ID	Number 8530-2001	
9. Waste Shipping Name			10. Con	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. AER-O-METE	ER NON HAZARDOUS	/NON REGULATED #US	W-07004	TT E	7000	G	
2.							
3.							
4.							
13. Special Handling Instructions							
	ed, and are in all respects in proper ped Name  Whale  Import to U.S. Its only):  Int of Receipt of Materials	Export	applicable international and national Signature From U.S. Port of 6				Month Day Yea  Month Day Yea
17. Discrepancy 17a. Discrepancy Indication Spa	Quantity	Туре	Residue		Partial Re	ection	Full Rejection
	L Quantity	Туре	Residue  Manifest Reference	Number:	Partial Re		Full Rejection
17a. Discrepancy Indication Spa	ator)	Туре		Number:			
17a. Discrepancy Indication Spa 17b. Alternate Facility (or General Facility's Phone:	ator)	1	Manifest Reference	Number:			

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 803-2580

Phone: (843) 893-2580 Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC,
Hereby certifies all materials described in
Manifest / Bill of Lading # 20150608-11
Were disposed of in compliance with all applicable local,
state and federal regulations on the date of:

### **JUNE 8, 2015**

For:

# MARINE CORPS AIR STATION ENVIRONMENTAL OFFICE

4	WASTE	ZARDOUS MANIFEST	Generator ID Number     CE SOC		2. Page 1 of 3. En	nergency Respon		4. Waste	Tracking Nur	nber 08-09
	P.O.	s Name and Maili	PAIR STATION		Gene	rator's Site Addre	ess (if different	than mailing add	ress)	
	Generator's P		43-228-6458							
	HE.	2 Company Nan	VAC					U.S. EPA ID	000	177/899
		Facility Name ar		4				U.S. EPA ID		
	36 CL WALT	EARWATE TERBORO.	RURIVE					U.S. EPA ID	Number 2630-200	
		-1	e and Description			10. Con	tainers	11. Total Quantity	12, Unit Wt./Vol.	
GENERATOR -	1.	AER-O-MET	ER NONHAZARDOU	S/NON REGULATED	#USW-07004	100	17	5000	G	
- GENI	2.									
	3.									
	4.									
	13. Special Ha	ndling Instruction	s and Additional Information							
	14. GENERATI marked and Generator's/Off	OR'S/OFFEROR d labeled/placarde feror's Printad/Ty	S CERTIFICATION: I hereby deed, and are in all respects in proped Name	eclare that the contents of this per condition for transport according	consignment are fully a prding to applicable inte	and accurately de mational and nat	scribed above	by the proper sh lental regulations	0.1	Month Day Year
INT'L	15. International	al Shipments gnature (for expor	Import to U.S.	7	Export from U.S.	Port of e		yw	noe	ey 6 8 12
	16. Transporter		nt of Receipt of Materials		0:1	Date lea	ring U.S.:	7	)	
TRANSPORTER	LAM	Printed/Typed Nar	forme!	1	Signature	)-	-(			Month Day Year  Month Day Year
A	17. Discrepancy	У								
	17a. Discrepand	cy Indication Spa	Ce Quantity	Туре		Residue		Partial Rej	ection	Full Rejection
-ACILITY	17b. Alternate F	Facility (or General	ator)		Mar	ifest Reference I	Number:	U.S. EPA ID N	Number	
DESIGNALED FACILITY		of Alternate Facili	ty (or Generator)							Month Day Year
DES							1			
	18. Designated	//	Operator: Certification of receip	t of materials covered by the m	01 1	d in Item a	//			Mante 5
1	70	OCYT	11092	n c	Signature	L A	1			Month Day Year
39.	BLC-0 6 1	0498 (Rev. 9	9/09)			V	D	ESIGNATE	D FACIL	ITY TO GENERATO

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC,
Hereby certifies all materials described in
Manifest / Bill of Lading # 20150608-09
Were disposed of in compliance with all applicable local,
state and federal regulations on the date of:

**JUNE 8, 2015** 

For:

### **MARINE CORPS AIR STATION**

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of	3. Emergency	Respons		4. Waste Tr 2015		05-03
5. Generator's Name and Mai	Sair Stairn -			Generator's S	ite Addres	ss (it different	than mailing addre	988)	
Generator's Phone: 6. Transporter 1 Company Na FENA	ame	LLC						000	771899
7. Transporter 2 Company Na	ame						U.S. EPA ID	Number	
8. Designated Facility Name A BING-A BIT RICA SECRETARI VIATI VIAL TERBORC	ERCRIVE , SC 294%					The state of the s	U.S. EPA ID	Number	i.
	493-2580/245-59949784			-	10. Conf	tainers	11. Total	12. Unit	
9. Waste Shipping Na	me and Description				No.	Type	Quantity	Wt./Vol.	
	TER NOW HAZARDOUS	/NONECLEAT	ED MUSIKA		1	77.7	5000	3.07	
2.				1					
3.							3		
4.									
14. GENERATOR'S/OFFER marked and labeled/plac Generator's/Offeror's Printed	hy Whal	plare that the contents of er condition for transport	according to applic	gnature	nal and na	sthy	mental regulation	S	Month Day
Transporter Signature (for ex	/ L_I Import to U.S.		Export from	U.S.		entarexit: aving U.S.:			
	ment of Receipt of Materials	/			0	7	1	_	
Transporter 1 Printed/Typed  A WAW  Transporter 2 Printed/Typed	CROMWEL	/		gnature					Month Day  Month Day
17. Discrepancy									
17a. Discrepancy Indication	Space Quantity	Туре			esidue		Partial R	ejection	Full Rejectio
17b. Alternate Facility (or Ge	enerator)			Manifest	Reference	e Number:	U.S. EPA IC	) Number	
							1		
Facility's Phone: 17c. Signature of Alternate F	acility (or Generator)		1				T		Month Day
	acility (or Generator)						/		Month Day
18. Designated Facility Own		t of materials covered by	the manifest exce	pt as noted in	tenn-ja	1—11			
17c. Signature of Alternate f		t of materials covered by	the manifest exce	pt as noted and		H			Month Day

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC,
Hereby certifies all materials described in
Manifest / Bill of Lading # 20150605-03
Were disposed of in compliance with all applicable local,
state and federal regulations on the date of:

JUNE 5, 2015

For:

### **MARINE CORPS AIR STATION**

1	NON-HAZARDOUS WASTE MANIFEST	Generator ID Number     CESOG	2. Page 1 of		rgency Response		4. Waste T	racking Number	5-04
	5. Generator's Name and Maili			Generat	tor's Site Addres	s (if different	than mailing addr		-
	P.O. BOX 55024 BEAUFORT, SC								\
	Giornoration o i morror	43-228-6458					U.S. EPA ID	Number	\
	1	AC LLC					SCR	0007	71899
	7. Transporter 2 Company Nar	me					U.S. EPA ID	Number	
	8. Designated Facility Name at						U.S. EPA ID		
	36 CLEARWATE	R DRIVE					152	2630-2001	
П	Facility's Phone: 843.8	SC 29488 93-2580/843-599-5764							
	9. Waste Shipping Nam				10. Cont	ainers	11. Total Quantity	12. Unit Wt./Vol.	
000	1. AED O NET	TER NON HAZARDOUS/NON REG	IN ATED # ISMA	22004		17		G	
GENERATOR	SEROME	EN HON MENHOUSENED NES	OLATED MONT	27 00-1	01		5000		
- GEN	2.								
	3.								
	3.								
	4.								
	13. Special Handling Instruction	ons and Additional Information							
	The second secon	TTO US WASTE 24 HR EMERG	ENGY CONTACT	RALP	H DAGIN B	43 228-6	458 001	10146	
	CONTRACT#M								
	14. GENERATOR'S/OFFERO	PR'S CERTIFICATION: I hereby declare that the considered and are in all respects in arrange condition for	ntents of this consignment	are fully a	nd accurately de	escribed abov	e by the proper st	nipping name, a	and are classified, packaged,
	Generator's/Offeror's Printed/1	rded, and are in all respects in proper condition for t Typed Name		gnature	1 mailonal and na	tional govern	mental regulations	0	Month Day Year
A	IIW	wothy whale	7 -		Lins	lky	wh	alee	16515
INT	15. International Shipments  Transporter Signature (for exp	Import to U.S.	Export from	U.S.	Port of e	ving U.S.:			/
	Transporter Digitalian (Inc. 2019)	ent of Receipt of Materials		0	1	, mig 0.0	1		
ORT	Transporter 1 Printed/Typed N	Romwell	Si	gnature	1 -	- (	//		Month Day Year
TRANSPORTER	Transporter 2 Printed/Typed N	*	Si	nature	/		1		Month Day Year
TH	17. Discrepancy					/			
1	17a. Discrepancy Indication S	pace Quantity	Туре	Г	Residue		Partial Re	piection	Full Rejection
		La Quantity L	туре				ranial rie	ejection	La Fair Hojection
  ≥	17b. Alternate Facility (or Gen	nerator)		Mar	nifest Reference	Number:	U.S. EPA ID	Number	
CILI									
ED FA	Facility's Phone:  17c. Signature of Alternate Fa	scility (or Generator)							Month Day Year
DESIGNATED FACILITY		, (							
DESIC									
1									
	18. Designated Facility Owner Printed/Typed Name	r or Operator: Certification of receipt of materials cov			d in Item 17a				Month Day Year
A	Northern	Hudsins	Si	gnaturo	//	= /	1		6 5 15
169	9-BLC-O 6 10498 (Rev	v. 9/09)	,				DESIGNAT	ED FACIL	ITY TO GENERATOR

-,54,

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC,
Hereby certifies all materials described in
Manifest / Bill of Lading # 20150605-04
Were disposed of in compliance with all applicable local,
state and federal regulations on the date of:

**JUNE 5, 2015** 

For:

### MARINE CORPS AIR STATION

	1. Generator ID Number		2. Page 1	0.43	cy Response Ph		4. Waste Trac	102	01-	5-02
NON-HAZARDOUS WASTE MANIFEST	SC175021615	9		Generator's	Site Address (i	f different tha	n mailing address	3)		
Generator's Name and Mail			OFFICE	Gonoran						
MARINE CORPS	MIKOIMIN	RC/MINICIPAL STATE								
BEAUFORT SC	20004			1						
	943-228-6458						U.S. EPA ID N	lumber	77	1899
nerator's Phone: Transporter 1 Company Na							SCK	000	) (	1899
Renn	VAC						U.S. EPA ID	Number		
Transporter 2 Company N										
Transportor E semps 7							U.S. EPA ID			
Designated Facility Name	and Site Address							630-200		
Designated Facility Name	The state of the s									
west transport	n sin make									
The Phone: 943	893 2580/843 599 5	754			10. Conta	ainers	11. Total	12. Unit		
				1	No.	Туре	Quantity	Wt./Vol.		
9. Waste Shipping N	Name and Description					TT		G		
1. sepon	ETER NON HAZARE	YOUS/NON RE	EGULATED #U	SW-07004	11		200			
RER-O-M					01		2500			
2.										
								1		
3.										
4.										
							1			
13. Special Handling Ins	structions and Additional Informa	ation		ACT BILL	Y DRAWD	y 843 Z	8 7121 C			
	structions and Additional Information		RGENCY GUN	ACT BILL	Y DRAWD	y 843 Z	98 7121 C			
CONTRACT	#MAG169 15-P-SAU									
CONTRACT	#MAQ160 15-P-SAU					I ibad o	have by the prop	er shipping n		re classified, packa
CONTRACT	#MAQ160 15-P-SAU					I ibad o	have by the prop	er shipping n		re classified, packar
14. GENERATOR'S/OF marked and labeled	# MARCHAS ATLAR SARIE  FFEROR'S CERTIFICATION: I  d/placarded, and are in all respec	hereby declare that			y and accurately	y described a I national gov	bove by the prop	er shipping n	ame, and a	re classified, packar
14. GENERATOR'S/OF marked and labeled	# MARCHAS ATLAR SARIE  FFEROR'S CERTIFICATION: I  d/placarded, and are in all respec	hereby declare that			y and accurately	y described a I national gov	bove by the prop	er shipping n	ame, and a	re classified, packar
14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P	FFEROR'S CERTIFICATION: I  Alphacarded, and are in all respectively.		the contents of this con on for transport according	signment are full ng to applicable Signatur	y and accurately nternational and	y described a	bove by the prop	er shipping n	ame, and a	re classified, packar
14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P	FFEROR'S CERTIFICATION: I dolacarded, and are in all respe- crinted/Typed Name	hereby declare that the cets in proper conditions.	the contents of this con on for transport according		y and accurately nternational and	y described a dinational government	bove by the prop	er shipping n	ame, and a	Month Day
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14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P  15. International Shipm Transporter Signature	FFEROR'S CERTIFICATION: I d/placarded, and are in all respectively.  Printed/Typed Name Import to U. (for exports only): owledgment of Receipt of Materia	hereby declare that acts in proper condition.  Valey  ials	the contents of this con on for transport according	signment are full ng to applicable Signatur	y and accurately international and	y described a dinational government	bove by the prop	er shipping n	ame, and a	Month Day  Month Day
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14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P  15. International Shipm Transporter Signature 16. Transporter Ackno Transporter 1 Printed/  Transporter 2 Printed/  17. Discrepancy Ind.	FFEROR'S CERTIFICATION: I d/placarded, and are in all respectively ments Import to U. (for exports only): welledgment of Receipt of Materi Typed Name  /Typed Name  dication Space Quantit ty (or Generator)	hereby declare that ects in proper condition water states.  S. Jane 1. Jane 1	the contents of this con on for transport according	signment are full ng to applicable Signatur (xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	y and accurately international and Port Date	of entry/exit	bove by the proper mental regularity.	er shipping n tions.	name, and a	Month Day Month Day Full Rej
14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P  15. International Shipm Transporter Signature 16. Transporter Ackno Transporter 1 Printed/  Transporter 2 Printed/  17. Discrepancy Ind.	FFEROR'S CERTIFICATION: I  I/placarded, and are in all respective for exports only):  Import to U.  I/for exports only):  I/fyped Name  I/Typed Name  I/Typed Name  I/Typed Name  I/Typed Name	hereby declare that ects in proper condition water states.  S. Jane 1. Jane 1	the contents of this con on for transport according	signment are full ng to applicable Signatur (xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	y and accurately international and Port Date	of entry/exit	bove by the proper mental regularity.	er shipping n tions.	name, and a	Month Day Month Day Full Rej
14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P  15. International Shipm Transporter Signature 16. Transporter Ackno Transporter 1 Printed/  Transporter 2 Printed/  17. Discrepancy Ind.	FFEROR'S CERTIFICATION: I d/placarded, and are in all respectively ments Import to U. (for exports only): welledgment of Receipt of Materi Typed Name  /Typed Name  dication Space Quantit ty (or Generator)	hereby declare that ects in proper condition water states.  S. Jane 1. Jane 1	the contents of this con on for transport according	signment are full ng to applicable Signatur (xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	y and accurately international and Port Date	of entry/exit	bove by the proper mental regularity.	er shipping n tions.	name, and a	Month Day Month Day Full Rej
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14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P  15. International Shipm Transporter Signature 16. Transporter Ackno Transporter 1 Printed/  17. Discrepancy 17a. Discrepancy Ind  17b. Alternate Facility S Phone:	FFEROR'S CERTIFICATION: I d/placarded, and are in all resperiments  Import to U. (for exports only): wheeldgment of Receipt of Materia Typed Name  /Typed Name  dication Space  Quantit  ty (or Generator)	hereby declare that ects in proper condition was experienced.  S. ials  Consulty	the contents of this con on for transport according.	signment are full ng to applicable Signatur Export from U.S. Signatur Signatur	y and accurately international and Port Date	of entry/exit	bove by the proper mental regularity.	er shipping n tions.	name, and a	Month Day Month Day Full Rej
14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P  15. International Shipm Transporter Signature 16. Transporter Ackno Transporter 2 Printed/  17. Discrepancy 17a. Discrepancy Ind. 17b. Alternate Facility Facility's Phone: 17c. Signature of Alt. 17c. Signature of	FFEROR'S CERTIFICATION: I d/placarded, and are in all resperiments  Import to U. (for exports only): wheeldgment of Receipt of Materia Typed Name  /Typed Name  dication Space  Quantit  ty (or Generator)	hereby declare that ects in proper condition was experienced.  S. ials  Consulty	the contents of this con on for transport according.	signment are full ng to applicable Signatur (xxport from U.S. Signatur (xxp	y and accurately international and Port Date  The P	of entry/exit	bove by the proper mental regularity.	er shipping n tions.	name, and a	Month Day Month Day Full Rej
14. GENERATOR'S/OF marked and labeled Generator's/Offeror's P  15. International Shipm Transporter Signature 16. Transporter Ackno Transporter 1 Printed/  Transporter 2 Printed/  17. Discrepancy Ind.	FFEROR'S CERTIFICATION: I d/placarded, and are in all respectively ments Import to U. (for exports only): welledgment of Receipt of Materi Typed Name  /Typed Name  dication Space Quantit ty (or Generator)	hereby declare that ects in proper condition was experienced.  S. ials  Consulty	the contents of this con on for transport according.	signment are full ng to applicable Signatur Export from U.S. Signatur Signatur	y and accurately international and Port Date  The P	of entry/exit	bove by the proper mental regularity.	er shipping n tions.	name, and a	Month Day  Month Day  Full Rej

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Fax: (843) 893-3328

### CERTIFICATE OF DISPOSAL

American Bio Mass LLC, Hereby certifies all materials described in Manifest / Bill of Lading # <u>06102015-02</u> Were disposed of in compliance with all applicable local, state and federal regulations on the date of:

### JUNE 10, 2015

For:

### MARINE CORPS AIR STATION/ENVIRONMENTAL **OFFICE**

NON-HAZARDOUS 1. WASTE MANIFEST  5. Generator's Name and Mailing A	Generator ID Number SC1750215169	2. P	age 1 of 3 serger	ncv Response	121	4. Waste T	351	mber
MARINE CORPS AIR HWY 21 BLDG 1205 BEAUF OF TS 2333 Generator's Phone.		3-9121		Awy '	,	than mailing addr	ess)	
6. Transporter 1 Company Name	- Var						200	2771859
Transporter 2 Company Name     B. Designated Facility Name and Si	ite Address					U.S. EPA ID		
ABM-AMERICAN BIO 36 CLEARWATER DE WALTERBORO, SC 2	RIVE 29488					1526	30-2001	
Facility's Phone: 843-893-25 9. Waste Shipping Name an				10. Conta	iners Type	11. Total Quantity	12. Unit Wt./Vol.	
1. AER-O-METER		ONREGUALTED #US	SW-07004	1	TT	5000 11/11/11/11/11/11/11/11/11/11/11/11/11/	8	SAC
3.								
4,								
	US WASTE 24 HR E	EMERGENCY CONTAI						
14. GENERATOR'S/OFFEROR'S ( marked and labeled/placarded, Generator's/Offeror's Printed/Typed	and are in all respects in proper Name	condition for transport according						Month Day Yea
15. International Shipments	Import to U.S.		ort from U.S.	Port of ent				
Transporter Signature (for exports of 16. Transporter Acknowledgment of				Date leavi	ing U.S.:			•
Transporter 1 Printed/Typed Name	500/4		Signature	L	11	-		Month Day Yea
Transporter 2 Printed/Typed Name			Signature	/				Month Day Yea
17. Discrepancy 17a. Discrepancy Indication Space						_		
Tra. Discrepancy mulcation Space	Quantity	Туре		Residue	Jumbar:	Partial Rej	ection	Full Rejection
17b. Alternate Facility (or Generator	r)		Wallios	i riciololico i	variber.	U.S. EPA ID	Number	
Facility's Phone:  17c. Signature of Alternate Facility	(or Generator)							Month Day Yea
	,	1			^	./		
					- /	1 /		
18. Designated Facility Owner of Printed Typed Name	perator: Certification of records of	f materials covered by the manife	est except as noted in	Item 172	1	//		Month Day Yea

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Fax: (843) 893-3328

### **CERTIFICATE OF DISPOSAL**

American Bio Mass LLC,
hereby certifies all materials described in
Manifest / Bill of Lading # 3351
were disposed of in compliance with all applicable local,
state and federal regulations on the date of:

January 30, 2017

For:

### MARINE CORPS AIR STATION

1	W	ON-HAZARDOUS ASTE MANIFEST	1. Generator ID Number SC1750216169		2. Page 1 of 3. E	mergency Respon	se Phone	4. Waste T	racking Nur	nber
	F	nerator's Name and Maili MARINE CORPS / IWY 21 BLDG 120	AIR STATION 05		Gen	erator's Site Addre			ess)	
		REAUFORT, SC 2	19904 <del>1-225-555</del> 1 <b>843-23</b> 5	1.919.1	1	,	s puh	LI		
		nsporter 1 Company Nan	ne 1	P- 11				U.S. EPA ID	Number	
	7. Tra	nsporter 2 Company Nam	n- Viac					U.S. EPA ID	2000	771899
								U.S. EFA ID	Number	,
		signated Facility Name an BM-AMERICAN E						U.S. EPA ID	Number 30-2001	
		5 CLEARWATER VALTERBORD, S						1020	100-2001	
	Facilit	y's Phone: 843-893	3-2580/843-599-5764			1-				
		9. Waste Shipping Name	e and Description			10. Con	Type	11. Total Quantity	12. Unit Wt./Vol	
J. HC		1. AER-O-METE	R NON HAZARDOUSAN	ION REGUALTED	#USW-07004		TT	(B)		<b>.</b>
GENERATOR		4 EEE	DATER			1		7500	9	
GENE		2.					,	5-010		
Ĭ										
		3.								
		4.								
	13. Sp	ecial Handling Instruction	s and Additional Information							
			TO US WASTE 24 HR	EMERGENCYCON	TACT RALE	PH DAGIN 8	43-228-645	8 60		
	14. GE	NERATOR'S/OFFEROR	'S CERTIFICATION:   hereby decla	re that the contents of this c	consignment are fully	and accurately de	scribed above by	the proper shir	nning name	and are classified nackaged
	Titu	rked and labeled/placarde ator's/Offeror's Printed/Ty	eu, and are in an respects in proper	condition for transport according	rding to applicable in Signature	ternational and nat	tional governmen	ntal regulations.	FF. 3 (19119)	
V			D. Col	Dolar .		Lemo	Chap L	Shale	4	Month Day Year
INT'L		ernational Shipments	Import to U.S.		Export from U.S.	Port of e			1	
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FIL	ITD. All	ernate Facility (or Genera	ator)					U.S. EPA ID N	umber	
) FAC		s Phone:								
DESIGNATED FACILITY	17c. Sig	gnature of Alternate Facili	ity (or Generator)		Ĩ		,			Month Day Year
SIGN									1	
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	18. Des	ignated Facility Own or	Operator: Certification of receipt of	materials covered by the ma	anifest eveent age	ed in Item 12	1	//		
	-	Typed Name	+ Han	a	Signature	od III Religiona	1	/		Month Day Year
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169	RTC-	O 6 10498 (Rev. 9	9/09)				DE	SIGNATE	D FACIL	LITY TO GENERATOR

### American Bio-Mass

Permit # 152630-2001 36 Clearwater Drive P O Box 704 Walterboro, SC 29488 Phone: (843) 893-2580

Fax: (843) 893-3328

### **CERTIFICATE OF DISPOSAL**

American Bio Mass LLC,
hereby certifies all materials described in
7Manifest / Bill of Lading # 3352
were disposed of in compliance with all applicable local,
state and federal regulations on the date of:

January 30, 2017

For:

# MARINE CORPS AIR STATION

Joel R. Hogan General Manager of American Bio Mass, LLC

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number SC1750215169	2. Page 1	of 3, Emergen 843-2	y Respon 25-555		4. Waste Tr	12.5	1205
Generalor's Name and Ma MARINE CORPS	Ale CTATION		Generalor's	Site Addre	ess (if different	than malling addre		-
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. Transporter 1 Company N						U.S. EPA ID I		21000
FENN	VAC					U.S. EPA ID I		771899
. Fransporter 2 Company N	allo					U.O. EFA ID I	-ullingi	
Designated Facility Name HERITAGE-WTI,	and Site Address					U.S. EPA ID I	Yumber	
1250 SAINT GEO	NC. PRGE STREET UNIT 1 DL , OH 43920-3461	A 4				ОНО	9806135	41
aclity's Phone: 800-54								
9. Waste Shipping Na	me and Description			10. Co	ntainers	11. Total	12. Unit	
				No.	Туре	Quantity	Wt_Vol.	
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enegator's/Offeror's Printed	Typed Name	contained for frampore according to a	Signature /	ng ang n	ajona jorem	mental regulations,		Month Day
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clity's Phone: c. Signature of Alternate For the Control of the Co	acility (or Generator)		\$ 15 Sec.	lem 17a			. 'a	Month Day  Month Day

NON-HAZARDOUS WASTE MANIFEST	1, Generalor ID Number SC1760215159	1 2. Pag	to Sd3-	228-6554		4. Waste Tra		1205
6. Generalor's Name and Melli MARINE GORPS				ALC: LANGE		ihan malling addre		100)
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Generalor's Phone: 34 6. Transpoder 1 Company Nar	*******		4		_	U.S. EPA ID A	lumbar	
Fenn-	la							027.1899
7. Transporter 2 Company Naz	Tid .					U.S. EPA ID I	lumber	07
						1 1 14		
6. Designated Faellry Name of HERITAGE-WTI, II 1250 SAINT GEOR EAST LIVERPOOL	RGE STREET UNIT 1					U.S. EPA ID I	luimber 98081 3	541
Fadilly's Phone: 500-545								
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# **Shipped Out by Waste Stream**

Page 1

Start Date: 01-JAN-80 End Date: 24-MAY-18 Waste Stream: NR031 EPA ID: ALL

NR031         BE20130076         AFF AND WATER         M5016930307411         504           BF20130078         AFF AND WATER         M5016930307411         504           BF20130079         AFFF AND WATER         M5016930307411         508           BF2013016         AFFF AND WATER         M5016931207401         154           BF2013015         AFFF AND WATER         M5016931207401         478           BF20130210         AFFF AND WATER         M5016931207401         218           BF20130462         AFFF AND WATER         M5016931207401         503           BF20130466         AFFF AND WATER         M5016931207401         503           BF20130467         AFFF AND WATER         M5016931207401         297           BF20130467         AFFF AND WATER         M5016931207402         297           BF20130467         AFFF AND WATER         M5016931207405         117           BF20130467         AFFF AND WATER         M5016931207405         117           BF20130468         AFFF AND WATER         M5016931207405         127           BF20130467         AFFF AND WATER         M5016931207405         117           BF20130469         USED AFFF         M5016931207405         117           BF20130401         U	Waste Stream	Container Number	Chemical Nomenclature	DTID	LBS
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BF20130150         AFFF AND WATER         M501693120T401         478           BF20130210         AFFF AND WATER         M501693120T401         218           BF20130462         AFFF AND WATER         M501693120T401         503           BF20130466         AFFF AND WATER         M501693120T401         503           BF20130467         AFFF AND WATER         M501693120T405         423           BF20130461         AFFF AND WATER         M501693120T405         423           BF20130401         AFFF AND WATER         M501693120T405         117           BF20130401         USED AFFF         M501693120T482         492           BF20130402         USED AFFF         M501693120T482         492           BF20130403         USED AFFF         M501693120T482         492           BF20130404         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         475           BF20130283         USED AFFF         M501693120T483         516           BF20130294         USED AFFF         M501693120T483         365           BF20130395         USED AFFF         M501693120T483		BF20130079	AFFF AND WATER	M501693030T411	508
BF20130210         AFFF AND WATER         M501693120T401         218           BF20130462         AFFF AND WATER         M501693120T401         509           BF20130466         AFFF AND WATER         M501693120T401         503           BF20130467         AFFF AND WATER         M501693120T405         223           BF20130461         AFFF AND WATER         M501693120T405         423           BF20130401         USED AFFF         M501693120T482         492           BF20130402         USED AFFF         M501693120T482         492           BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T482         370           BF20130249         USED AFFF         M501693120T483         365           BF20130221         USED AFFF         M501693120T483         365           BF20130222         USED AFFF         M501693120T483         375           BF201302283         USED AFFF         M501693120T483         516           BF20130396         USED AFFF         M501693120T483         516           BF20130397         USED AFFF         M501693120T483         519           BF20130398         USED AFFF         M501693120T483         524 </td <td></td> <td>BF20130146</td> <td>AFFF AND WATER</td> <td>M501693120T401</td> <td>154</td>		BF20130146	AFFF AND WATER	M501693120T401	154
BF20130462         AFFF AND WATER         M501693120T401         509           BF20130466         AFFF AND WATER         M501693120T401         503           BF20130467         AFFF AND WATER         M501693120T405         297           BF20130461         AFFF AND WATER         M501693120T405         423           BF20130405         AFFF AND WATER         M501693120T405         117           BF20130401         USED AFFF         M501693120T422         492           BF20130402         USED AFFF         M501693120T482         370           BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T483         475           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         516           BF20130283         USED AFFF         M501693120T483         516           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         519           BF20130398         USED AFFF         M501693120T483         524 <td></td> <td>BF20130150</td> <td>AFFF AND WATER</td> <td>M501693120T401</td> <td>478</td>		BF20130150	AFFF AND WATER	M501693120T401	478
BF20130466         AFFF AND WATER         M501693120T401         503           BF20130467         AFFF AND WATER         M501693120T401         297           BF20130461         AFFF AND WATER         M501693120T405         412           BF20130465         AFFF AND WATER         M501693120T405         117           BF20130401         USED AFFF         M501693120T482         492           BF20130402         USED AFFF         M501693120T482         488           BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T482         349           BF20130149         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         365           BF20130282         USED AFFF         M501693120T483         475           BF20130283         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         484           BF20130397         USED AFFF         M501693120T483         484           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         474		BF20130210	AFFF AND WATER	M501693120T401	218
BF20130467         AFFF AND WATER         M501693120T401         297           BF20130461         AFFF AND WATER         M501693120T405         423           BF20130465         AFFF AND WATER         M501693120T405         117           BF20130401         USED AFFF         M501693120T462         492           BF20130402         USED AFFF         M501693120T482         488           BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T482         492           BF20130249         USED AFFF         M501693120T483         475           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         516           BF20130283         USED AFFF         M501693120T483         516           BF20130399         USED AFFF         M501693120T483         365           BF20130399         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         474           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         496 <td></td> <td>BF20130462</td> <td>AFFF AND WATER</td> <td>M501693120T401</td> <td>509</td>		BF20130462	AFFF AND WATER	M501693120T401	509
BF20130461         AFFF AND WATER         M501693120T405         423           BF20130465         AFFF AND WATER         M501693120T405         117           BF20130401         USED AFFF         M501693120T482         492           BF20130402         USED AFFF         M501693120T482         488           BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T483         365           BF20130149         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         475           BF20130283         USED AFFF         M501693120T483         516           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         524           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130154         AFFF AND WATER         M501693183T435         496           BF20130584         AFFF AND WATER         M501693183T435         498 <td></td> <td>BF20130466</td> <td>AFFF AND WATER</td> <td>M501693120T401</td> <td>503</td>		BF20130466	AFFF AND WATER	M501693120T401	503
BF20130465         AFFF AND WATER         M501693120T405         117           BF20130401         USED AFFF         M501693120T482         492           BF20130402         USED AFFF         M501693120T482         488           BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         365           BF20130282         USED AFFF         M501693120T483         475           BF20130283         USED AFFF         M501693120T483         475           BF20130283         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         516           BF20130397         USED AFFF         M501693120T483         519           BF20130398         USED AFFF         M501693120T483         519           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         496		BF20130467	AFFF AND WATER	M501693120T401	297
BF20130401         USED AFFF         M501693120T482         492           BF20130402         USED AFFF         M501693120T482         488           BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T482         492           BF20130149         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         516           BF20130283         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         484           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         474           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M5016931837435         498		BF20130461	AFFF AND WATER	M501693120T405	423
BF20130402         USED AFFF         M501693120T482         488           BF20130403         USED AFFF         M501693120T482         370           BF20130149         USED AFFF         M501693120T482         492           BF20130281         USED AFFF         M501693120T483         365           BF20130282         USED AFFF         M501693120T483         475           BF20130283         USED AFFF         M501693120T483         516           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         365           BF20130399         USED AFFF         M501693120T483         365           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         497           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130268         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M501694063T444         473 <td></td> <td>BF20130465</td> <td>AFFF AND WATER</td> <td>M501693120T405</td> <td>117</td>		BF20130465	AFFF AND WATER	M501693120T405	117
BF20130403         USED AFFF         M501693120T482         370           BF20130404         USED AFFF         M501693120T482         492           BF20130149         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         516           BF20130283         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         474           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         474           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         496           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M5016940637444         273           BF201302061         AFFF AND WATER         M5016940637444         473 </td <td></td> <td>BF20130401</td> <td>USED AFFF</td> <td>M501693120T482</td> <td>492</td>		BF20130401	USED AFFF	M501693120T482	492
BF20130404         USED AFFF         M501693120T482         492           BF20130149         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         516           BF20130393         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         365           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         498           BF20130264         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M501694063T444         273           BF20130261         AFFF AND WATER         M501694063T444         473           BF20140495         AFFF AND WATER         M501694127T402		BF20130402	USED AFFF	M501693120T482	488
BF20130149         USED AFFF         M501693120T483         365           BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         516           BF20130393         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M501694063T444         273           BF20140495         AFFF AND WATER         M501694063T444         498           BF20140496         AFFF AND WATER         M501694127T402		BF20130403	USED AFFF	M501693120T482	370
BF20130281         USED AFFF         M501693120T483         475           BF20130282         USED AFFF         M501693120T483         516           BF20130283         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         287           BF20130147         AFFF AND WATER         M501693183T435         496           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         488           BF20130268         AFFF AND WATER         M501693183T435         464           BF20130261         AFFF AND WATER         M501694063T444         273           BF20130262         AFFF AND WATER         M501694063T444         473           BF20140495         AFFF AND WATER         M501694127T402         477           BF20140496         AFFF AND WATER         M501694127T402 <td></td> <td>BF20130404</td> <td>USED AFFF</td> <td>M501693120T482</td> <td>492</td>		BF20130404	USED AFFF	M501693120T482	492
BF20130282         USED AFFF         M501693120T483         516           BF20130283         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         488           BF20130285         AFFF AND WATER         M501693183T435         488           BF20130208         AFFF AND WATER         M501694063T444         273           BF20130261         AFFF AND WATER         M501694063T444         473           BF20140495         AFFF AND WATER         M501694063T444         473           BF20140496         AFFF AND WATER         M50169412TT402         477           BF20140497         AFFF AND WATER         M50169412TT40		BF20130149	USED AFFF	M501693120T483	365
BF20130283         USED AFFF         M501693120T483         484           BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130154         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         498           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130285         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M501694063T444         273           BF20130261         AFFF AND WATER         M501694063T444         498           BF20140495         AFFF AND WATER         M501694063T444         473           BF20140496         AFFF AND WATER         M501694127T402         477           BF20140497         AFFF AND WATER         M501694127T402         490           BF20140207         AFFF AND WATER         M5016942		BF20130281	USED AFFF	M501693120T483	475
BF20130396         USED AFFF         M501693120T483         519           BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130585         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M5016940637444         273           BF20130261         AFFF AND WATER         M5016940637444         498           BF20130262         AFFF AND WATER         M5016940637444         473           BF20140495         AFFF AND WATER         M5016940637444         473           BF20140496         AFFF AND WATER         M501694127T402         477           BF20140497         AFFF AND WATER         M501694248T463         505           BF20140217         AFFF AND WATER         M50		BF20130282	USED AFFF	M501693120T483	516
BF20130397         USED AFFF         M501693120T483         365           BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130585         AFFF AND WATER         M501693183T435         464           BF20130208         AFFF AND WATER         M501694063T444         273           BF20130261         AFFF AND WATER         M501694063T444         498           BF20130262         AFFF AND WATER         M501694063T444         473           BF20140495         AFFF AND WATER         M501694063T444         473           BF20140496         AFFF AND WATER         M501694023T402         477           BF20140497         AFFF AND WATER         M501694127T402         490           BF20140207         AFFF AND WATER         M501694248T463         505           BF20140216         AFFF AND WATER <t< td=""><td></td><td>BF20130283</td><td>USED AFFF</td><td>M501693120T483</td><td>484</td></t<>		BF20130283	USED AFFF	M501693120T483	484
BF20130398         USED AFFF         M501693120T483         474           BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130154         AFFF AND WATER         M501693183T435         287           BF20130584         AFFF AND WATER         M501693183T435         417           BF20130585         AFFF AND WATER         M501693183T435         498           BF20130208         AFFF AND WATER         M501693183T435         464           BF20130261         AFFF AND WATER         M501694063T444         273           BF20130262         AFFF AND WATER         M501694063T444         498           BF20140495         AFFF AND WATER         M501694063T444         473           BF20140496         AFFF AND WATER         M501694127T402         477           BF20140497         AFFF AND WATER         M501694127T402         490           BF20140207         AFFF AND WATER         M501694248T463         505           BF20140217         AFFF AND WATER         M501694248T463         479           BF20140222         AFFF AND WATER         M501694248T463         480           BF20140222         AFFF AND WATER		BF20130396	USED AFFF	M501693120T483	519
BF20130399         USED AFFF         M501693120T483         524           BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130265         AFFF AND WATER         M501693183T435         464           BF20130208         AFFF AND WATER         M501694063T444         273           BF20130261         AFFF AND WATER         M501694063T444         498           BF20130262         AFFF AND WATER         M501694063T444         473           BF20140495         AFFF AND WATER         M501694127T402         477           BF20140496         AFFF AND WATER         M501694127T402         477           BF20140497         AFFF AND WATER         M501694127T402         490           BF20140207         AFFF AND WATER         M501694248T463         505           BF20140216         AFFF AND WATER         M501694248T463         479           BF20140222         AFFF AND WATER         M501694248T463         480           BF20140222         AFFF AND WATER		BF20130397	USED AFFF	M501693120T483	365
BF20130145         AFFF AND WATER         M501693183T435         496           BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130585         AFFF AND WATER         M501693183T435         464           BF20130208         AFFF AND WATER         M501694063T444         273           BF20130261         AFFF AND WATER         M501694063T444         498           BF20130262         AFFF AND WATER         M501694063T444         473           BF20140495         AFFF AND WATER         M501694127T402         477           BF20140496         AFFF AND WATER         M501694127T402         477           BF20140497         AFFF AND WATER         M501694127T402         490           BF20140207         AFFF AND WATER         M501694248T463         505           BF20140216         AFFF AND WATER         M501694248T463         479           BF20140217         AFFF AND WATER         M501694248T463         480           BF20140212         AFFF AND WATER         M501694248T463         234           BF20130870         USED AFFF		BF20130398	USED AFFF	M501693120T483	474
BF20130147         AFFF AND WATER         M501693183T435         287           BF20130154         AFFF AND WATER         M501693183T435         417           BF20130584         AFFF AND WATER         M501693183T435         498           BF20130285         AFFF AND WATER         M501694063T444         273           BF20130208         AFFF AND WATER         M501694063T444         498           BF20130261         AFFF AND WATER         M501694063T444         473           BF20130262         AFFF AND WATER         M501694063T444         473           BF20140495         AFFF AND WATER         M501694127T402         477           BF20140496         AFFF AND WATER         M501694127T402         477           BF20140498         AFFF AND WATER         M501694127T402         490           BF20140297         AFFF AND WATER         M501694127T403         489           BF20140216         AFFF AND WATER         M501694248T463         505           BF20140217         AFFF AND WATER         M501694248T463         479           BF20140222         AFFF AND WATER         M501694248T463         234           BF20130870         USED AFFF         M501694248T463         234		BF20130399	USED AFFF	M501693120T483	524
BF20130154       AFFF AND WATER       M501693183T435       417         BF20130584       AFFF AND WATER       M501693183T435       498         BF20130585       AFFF AND WATER       M501693183T435       464         BF20130208       AFFF AND WATER       M501694063T444       273         BF20130261       AFFF AND WATER       M501694063T444       498         BF20130262       AFFF AND WATER       M501694063T444       473         BF20140495       AFFF AND WATER       M501694127T402       477         BF20140496       AFFF AND WATER       M501694127T402       477         BF20140498       AFFF AND WATER       M501694127T402       490         BF20140207       AFFF AND WATER       M501694127T403       489         BF20140216       AFFF AND WATER       M501694248T463       505         BF20140217       AFFF AND WATER       M501694248T463       479         BF20140222       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20130145	AFFF AND WATER	M501693183T435	496
BF20130584       AFFF AND WATER       M501693183T435       498         BF20130585       AFFF AND WATER       M501693183T435       464         BF20130208       AFFF AND WATER       M501694063T444       273         BF20130261       AFFF AND WATER       M501694063T444       498         BF20130262       AFFF AND WATER       M501694063T444       473         BF20140495       AFFF AND WATER       M501694127T402       477         BF20140496       AFFF AND WATER       M501694127T402       477         BF20140498       AFFF AND WATER       M501694127T402       490         BF20140207       AFFF AND WATER       M501694127T403       489         BF20140216       AFFF AND WATER       M501694248T463       505         BF20140217       AFFF AND WATER       M501694248T463       479         BF20140222       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20130147	AFFF AND WATER	M501693183T435	287
BF20130585       AFFF AND WATER       M501693183T435       464         BF20130208       AFFF AND WATER       M501694063T444       273         BF20130261       AFFF AND WATER       M501694063T444       498         BF20130262       AFFF AND WATER       M501694063T444       473         BF20140495       AFFF AND WATER       M501694127T402       477         BF20140496       AFFF AND WATER       M501694127T402       477         BF20140498       AFFF AND WATER       M501694127T402       490         BF20140497       AFFF AND WATER       M501694127T403       489         BF20140207       AFFF AND WATER       M501694248T463       505         BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20130154	AFFF AND WATER	M501693183T435	417
BF20130208       AFFF AND WATER       M501694063T444       273         BF20130261       AFFF AND WATER       M501694063T444       498         BF20130262       AFFF AND WATER       M501694063T444       473         BF20140495       AFFF AND WATER       M501694127T402       477         BF20140496       AFFF AND WATER       M501694127T402       477         BF20140497       AFFF AND WATER       M501694127T402       490         BF20140207       AFFF AND WATER       M501694127T403       489         BF20140216       AFFF AND WATER       M501694248T463       505         BF20140217       AFFF AND WATER       M501694248T463       479         BF20140222       AFFF AND WATER       M501694248T463       480         BF20130870       USED AFFF       M501694330T497       116		BF20130584	AFFF AND WATER	M501693183T435	498
BF20130261       AFFF AND WATER       M501694063T444       498         BF20130262       AFFF AND WATER       M501694063T444       473         BF20140495       AFFF AND WATER       M501694127T402       477         BF20140496       AFFF AND WATER       M501694127T402       477         BF20140498       AFFF AND WATER       M501694127T402       490         BF20140297       AFFF AND WATER       M501694127T403       489         BF20140216       AFFF AND WATER       M501694248T463       505         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20130585	AFFF AND WATER	M501693183T435	464
BF20130262       AFFF AND WATER       M501694063T444       473         BF20140495       AFFF AND WATER       M501694127T402       477         BF20140496       AFFF AND WATER       M501694127T402       477         BF20140498       AFFF AND WATER       M501694127T402       490         BF20140497       AFFF AND WATER       M501694127T403       489         BF20140207       AFFF AND WATER       M501694248T463       505         BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20130208	AFFF AND WATER	M501694063T444	273
BF20140495       AFFF AND WATER       M501694127T402       477         BF20140496       AFFF AND WATER       M501694127T402       477         BF20140498       AFFF AND WATER       M501694127T402       490         BF20140497       AFFF AND WATER       M501694127T403       489         BF20140207       AFFF AND WATER       M501694248T463       505         BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20130261	AFFF AND WATER	M501694063T444	498
BF20140496       AFFF AND WATER       M501694127T402       477         BF20140498       AFFF AND WATER       M501694127T402       490         BF20140497       AFFF AND WATER       M501694127T403       489         BF20140207       AFFF AND WATER       M501694248T463       505         BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20130262	AFFF AND WATER	M501694063T444	473
BF20140498       AFFF AND WATER       M501694127T402       490         BF20140497       AFFF AND WATER       M501694127T403       489         BF20140207       AFFF AND WATER       M501694248T463       505         BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20140495	AFFF AND WATER	M501694127T402	477
BF20140497       AFFF AND WATER       M501694127T403       489         BF20140207       AFFF AND WATER       M501694248T463       505         BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20140496	AFFF AND WATER	M501694127T402	477
BF20140207       AFFF AND WATER       M501694248T463       505         BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20140498	AFFF AND WATER	M501694127T402	490
BF20140216       AFFF AND WATER       M501694248T463       479         BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20140497	AFFF AND WATER	M501694127T403	489
BF20140217       AFFF AND WATER       M501694248T463       480         BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20140207	AFFF AND WATER	M501694248T463	505
BF20140222       AFFF AND WATER       M501694248T463       234         BF20130870       USED AFFF       M501694330T497       116		BF20140216	AFFF AND WATER	M501694248T463	479
BF20130870 USED AFFF M501694330T497 116		BF20140217	AFFF AND WATER	M501694248T463	480
		BF20140222	AFFF AND WATER	M501694248T463	234
BF20130887 USED AFFF M501694330T497 492		BF20130870	USED AFFF	M501694330T497	116
		BF20130887	USED AFFF	M501694330T497	492

# **Shipped Out by Waste Stream**

Page 2

Start Date: 01-JAN-80 End Date: 24-MAY-18 Waste Stream: NR031 EPA ID: ALL

Waste Stream	Container Number	Chemical Nomenclature	DTID	LBS
NR031	BF20130888	USED AFFF	M501694330T497	498
	BF20130895	USED AFFF	M501694330T497	48
	BF20110011	USED AFFF	M601691035T461	15
	BF20090539	USED AFFF	M601699183T483	77
	BF20140937	AFFF AND WATER	M501695034T430	312
	BF20150700	USED AFFF	M501696137T434	497
	BF20150701	USED AFFF	M501696137T434	475
	BF20150702	USED AFFF	M501696137T434	523
	BF20150703	USED AFFF	M501696137T434	508
	BF20150728	USED AFFF	M501695210T492	16
	BF20151077	USED AFFF	M501696217T445	490
	BF20151078	USED AFFF	M501696217T445	419
	BF20160231	USED AFFF	M501696137T434	471
	BF20160232	USED AFFF	M501696137T434	305
	BF20160233	USED AFFF	M501696137T434	440
	BF20160234	USED AFFF	M501696137T434	450
	BF20160244	USED AFFF	M501696137T434	469
	BF20160245	USED AFFF	M501696137T434	287
	BF20160266	USED AFFF	M501696137T434	176
	BF20160267	USED AFFF	M501696137T434	236
	BF20160268	USED AFFF	M501696137T434	520
	BF20160269	USED AFFF	M501696137T434	538
	BF20160270	USED AFFF	M501696137T434	527
	BF20160271	USED AFFF	M501696137T434	485
	BF20160272	USED AFFF	M501696217T445	248
	BF20160273	USED AFFF	M501696217T445	414
	BF20160670	USED AFFF	M501696217T445	242
	BF20160671	USED AFFF	M501696217T445	311
	BF20160733	USED AFFF	M501696217T445	323
	BF20160734	USED AFFF	M501696217T445	492
	Totals by Waste Stream	n:		28745
Grand Total :				28745

24-MAY-18 08:12:22

# **Shipped Out by Waste Stream**

Page 1

Start Date: 01-JAN-80 End Date: 24-MAY-18 Waste Stream: NR199 EPA ID: ALL

Waste Stream	<b>Container Number</b>	Chemical Nomenclature	DTID	LBS
NR199	BF20110791	ABSORBENTS AND DEBRIS CONTAMINATED WITH AFFF	M601691251T456	131
	BF20161022	ABSORBENTS AND DEBRIS CONTAMINATED WITH AFFF	M501697066T435	214
	Totals by Waste Stream:			345
Grand Total :				345

24-MAY-18 08:09:13

# **Shipped Out by Waste Stream**

Page 1

Start Date: 01-JAN-80 End Date: 24-MAY-18 Waste Stream: NR258 EPA ID: ALL

Waste Stream	<b>Container Number</b>	Chemical Nomenclature	DTID	LBS
NR258	BF20111227	ABSORBENT, DEBRIS CONTAMINATED WITH AFFF	M501692003T420	541
	BF20110475	ABSORBENT, DEBRIS CONTAMINATED WITH AFFF	M601691154T490	33
	Totals by Waste Stream:			574
Grand Total :				574





#### **Burton Fire District**

Station: 81 Shifts Or Platoon: 1

LUCAGON	
3481 Trask PKY	
Reaufort (County) SC	700n

Lat/Long: N 32° 27' 8.07" W 80° 43′ 53.52″

Zone:

Structure Type: Property Use: 963 - Street or road in commercial area

BH1 - Burton Hill (County) Location Type: 1 - Street address

Incident Type	Incld	lent	Τv	oe
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142 - Brush or brush-and-grass mixture fire

FDID: 07303

Incident #: 2019-450 Exposure ID: 38024260 Exposure #: 0 Incident Date: 02/22/2019

Report Completed by:	Carneavale , Tony R	ID: 495.	Date: 02/23/2019
Report Reviewed by:	Cameavale , Tony R	ID: 495	Date: 02/23/2019
Report Printed by:	Bright, Nichole	ID: 522	Date: 2/28/2019 Time: 14:10

Automatic Exting	gulshment S	ystem Pre	esent; 🗆	Detectors Present	; D	Cause of	Ignition: Cause undetermined a investigation	ifter
Aid Given or Rec	eived;	None	Primary :	action taken:	10	- Fire co	ntrol or extinguishment, other	
Losses	Pre-Incid	ent Valu	es					
Property:	Property:			Civilian Injuries:	;	0	Fire Service Injuries:	0
Contents:	Contents:			Civilian Fatalitie	5:	O,	Fire Service Fatalities:	0
Total:	Total:			Total Casualties	:	0	Total Fire Service Casualties:	0
Total # of appar	atus on call:			<b>2</b> To	otal #	of perso	nnel on call:	4
NARRATIVE	NARRATIVE (1)							
Narrative Title	: Brush Fire							
Narrative Auth	nor: Lewis, (	Christoph	er					
Narrative Date	: 02/23/201	19 06:40:	47					
Narrative Appa	aratus ID:	<b>E8</b> 1						
Narrative:								
Engine 81, Batt previously in th		d Beaufoi	rt City Eng	ine 4 were dispato	hed .	and respo	onded to a brush fire near the addre	ss listed
				ites Marine Corps ( Engine 81 arrived o			n scene extinguishing the fire with tell.	he
A Beaufort Cou	nty Deputy !	Sheriff wa	s on scen	e, as well as Unite	ed Sta	ites Marin	e Corps Police units.	
The fire was extinguished as Burton Fire District units arrived on scene by the United States Marine Corps Humvee that was on scene.								
Beaufort City Engine 4 was cancelled.								
Engine 81 ensured the fire was fully extinguished.								
Command was	Command was terminated and all Burton Fire District units returned to service and quarters.							
								·

nember Making Report (Battalion Chier Tony R Carneavi	ale);
	•
ncident Reviewer (Battalion Chief Tony R Carneavale):	





Зу:	Elizabeth Maurer	Date:	May 9, 2018
Γalked with:	Chris Vaigneur	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-6455		In Person Interview Summary
Distribution:			

Mr. Vaigneur is a current employee of MCAS Beaufort and is currently the Environmental Compliance Supervisor. His work includes supervising temporary waste storage and waste disposal on base. AECOM met with Mr. Vaigneur, at the recommendation of Craig Ehde, to conduct an in person interview regarding the use, clean-up and disposal of PFAS containing materials, especially AFFF, at MCAS Beaufort.

Mr. Vaigneur reported that no Teflon coating, or chrome plating shops have operated at MCAS Beaufort. To his knowledge, the only plating activities to occur on site were cadmium plating. The base has one auto-hobby shop, two car washes and two aircraft wash racks. Mr. Vaigneur was unaware of the type of aircraft soap used at the wash racks, and reported that one of the car washes was power wash only. He indicated that there are no active landfills on site. He reported that the base uses Beaufort Jasper water. Mr. Vaigneur stated that almost all storm water drains go to the large storm water pond on the eastern side of the base. He also reported that all oil water separators on base drain to the sanitary sewer.

Mr. Vaigneur indicated that a carbon drum containing treated PFAS contaminated groundwater leaked onto the concrete pad at the waste storage facility. Efforts were made to clean up the water, and the carbon drum was put into an overpack drum for containment.

During the interview, Mr. Vaigneur mentioned that he would provide AFFF spill reports, and storage and disposal records.

In reference to AFFF use, storage and disposal on base, Mr. Vaigneur stated the following:

- Tank 979 holds spent AFFF and AFFF rinsate.
- To his knowledge, AFFF is not used during fire training exercises.

- Mr. Vaigneur stated that if AFFF is captured it is disposed of according to guidance.
   Previously it was disposed of as non-regulated waste, and the waste was solidified.
   Currently the waste is incinerated. Current protocol for AFFF waste disposal includes storing 6,000 gallons of waste in AST 979 and disposing of the waste as bulk.
- Containerized AFFF that is currently stored on site will be disposed of under a contract.
- He reported that during a release of AFFF in a hangar, the AFFF goes into sump. A vac truck is used to collect AFFF from the release site to tank 979.



Ву:	Elizabeth Maurer	Date:	May 9, 2018
Talked with:	Craig Ehde	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-7317		In Person Interview Summary
Distribution:			

Mr. Ehde is a current employee of MCAS Beaufort and is currently the Installation Restoration/UST Manager. AECOM met with Mr. Ehde to conduct an in person interview regarding the use of PFAS containing materials at MCAS Beaufort.

Based on his knowledge of current and historic site operations, Mr. Ehde reported that no Teflon coating, or chrome plating shops have operated at MCAS Beaufort. To his knowledge, the only plating activities to occur on site were cadmium plating. He indicated that the base has used Beaufort Jasper water since the 1960's and that there are no water supply wells on base. He reported that the fire training pit is not lined. Containment at the current training pit includes concrete and a berm.

In reference to AFFF use on base, Mr. Ehde stated the following:

- He has seen AFFF on the asphalt at the current fire training area, and in retention basins near hangars after a release of AFFF.
- He is not aware of any use of AFFF to prevent fire in the event of a fuel release or during emergency landings.
- He believes that AFFF was probably in the historic water treatment system, and may potentially be in the current sanitary sewer network.
- To his knowledge, AFFF was not used to put out fires during waste burning in historic landfills.
- He believes that most landfills on base were inactive prior to AFFF use on base.
- AFFF was used during a crash response in 2007, but he did not have details about the event.



Ву:	Elizabeth Maurer		Date:	May 22 an	d 24, 2018
Talked with:	Chris Vaigneur		Project number:	60563666	
From (company)	: MCAS Beaufort		Subject:	PFAS Inte	rview Follow up and
Phone number:	843-228-6455			Document	ation Request
Distribution:	AFFF Inventory	AFFF Spill Reports	AFFF No and Bulk Records	Disposal	MCAS Beaufort General Development Map

Mr. Vaigneur, the current Environmental Compliance Supervisor at MCAS Beaufort, was contacted by electronic mail to follow-up about records and documents that were discussed during the May 9, 2018 interview with AECOM. AECOM also requested additional information about AFFF releases, storage and disposal. The following files were provided in the correspondence and are provided in Appendices A through D, respectively:

- AFFF storage inventory summarizing the volume and location of AFFF installed in fire suppression systems and trucks, and pure unopened AFFF containers stored in warehouses. The storage inventory includes quantities of AFFF at each location and contact information for the managers of the locations and, if known, the manufacture and manufacture date of the AFFF.
- AFFF spill reports dating back to 2014. The reports include details about the release including date and time, location, personnel involved, description of the release, estimated volume of AFFF released, cause of release and corrective action.
- MCAS Beaufort General Development Map showing the current layout of the base including buildings, runways, roads and water features.
- AFFF waste disposal manifests including manifests for bulk disposal and a summary table for non-bulk disposal. In the email correspondence, Mr. Vaigneur stated that on the non-bulk (i.e. smaller containers <55 gal) record, it is hard to differentiate AFFF waste from other Non-regulated wastes on old manifests since they could be on the same line. The report is an estimate of AFFF waste disposal dating back to 2011, and the wastes included on this report were disposed of as non-regulated waste.

During the interview follow-up correspondence, Mr. Vaigneur reported that the following spills occurred, but he did not have records for them:

- 8/8/2003 AFFF discharged in response to aircraft emergency (approx. 30 gallons);
- 11/22/2004 Full system discharge (approx. 6,000 gallons) of AFFF at Hangar 414;
- 7/12/2005 Full system discharge (approx. 1,100 gallons) of AFFF at Hangar 728; and
- 2015 Full system discharge (approx. 1,200 gallons) at Hangar 2146.



Ву:	Elizabeth Maurer	Date:	May 23, 2018
Talked with:	Darran Vaughn	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-7293		
Distribution:			

Chief Vaughn is a current employee of MCAS Beaufort and is currently the Chief of the Fire Department. Prior to working for the base Fire Department, Chief Vaughn was part of Crash Fire Rescue. AECOM contacted Chief Vaughn, at the recommendation of Craig Ehde, to conduct a telephone interview regarding the use of AFFF at MCAS Beaufort. During the telephone call, Chief Vaughn provided the following information:

- The last time Fire Department used AFFF for training was approximately 4 years ago. When AFFF was used for training it was not contained, it was just washed away with water.
- The fire training area is not lined. It consists of concrete, asphalt and grass.
- All hangars on the flight line have AFFF fire-suppression systems installed, which include an AST for AFFF.
- Chief Vaughn reported that to his knowledge every hangar on the flight line has had a release of AFFF. Releases in hangars have occurred due to fire suppression systems being inadvertently set off, including accidental release due to manual release, guns set off by maintenance, and system malfunction.
- Typical response when AFFF is released in the hangar includes pushing the AFFF out past the floor drains and attempt to contain with a berm. Floor drains in the hangars lead to the oil water separator. Typically NEARO cleans out the drains following a release.
- Maintenance of fire suppression systems is provided by Eagle Fire.
- AFFF equipment/trucks are typically parked in the fire department station and the ARFF station.
- He mentioned that the trucks do leak, sometimes just water from hoses but he says it is likely that the leaks include AFFF.
- The Fire Department tested trucks about 4 years ago in the fire training area, which included the use of AFFF mixed with water.

- Crash Fire Rescue perform wet checks frequently, which includes shooting water from truck hoses. The location of these tests is unknown. In the event that Crash Fire Rescue does a test that involves AFFF, the test is performed at the fire training area.
- ARFF and Fire Department trucks are filled and refilled with AFFF at the stations. AFFF is supplied through a reservoir on top of the truck. AFFF containers are turned upside down and pierced by a fixed blade in the reservoir to open container. There is no secondary containment during resupply.
- In the past, the Fire Department kept the empty AFFF containers in the bunker. He is unsure where they were disposed of when the building was demolished.
- Crash Fire Rescue clean their truck on the concrete in front of the station.
- Prior to demolition of building 595, the Fire Department and Aircraft Rescue and Fire Fighting washed the fire trucks on the front pad. The Fire Department now washes on the wash pad area at the current station.
- When foam was used in a fire response, it was not recorded on fire response records.
- Chief Vaughn reported that AFFF was used during the following events:
  - Fuel release to prevent ignition in 1996 on the east ramp area;
  - Fuel release to prevent ignition in 2004 on west ramp area;
  - Crash response to contain/prevent fire in 1989 Parris Island jet crash;
  - Fire response in 1989 to contain a tanker truck fire adjacent to the security gate at Laurel Bay;
  - o Crash response to contain/prevent fire in a 2004 jet crash at Compass Rose; and
  - Crash response to contain/prevent fire in a 1991 jet crash at the end of runway
     14.



Ву:	Elizabeth Maurer	Date:	May 23, 2018
Talked with:	CWO3 Theodore Hensley	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:			
Distribution:			

AECOM contacted Chief Warrant Officer (CWO3) Theodore Hensley via electronic mail (Theodore.Hensley@usmc.mil) to request an interview to complete the PFAS questionnaire. CWO3 Hensley is the current ARFF Officer in Charge (ARFF Fire Chief) at MCAS Beaufort. He declined to be interviewed due to a limited knowledge of the topic, and forwarded the email from AECOM to Master Sergeant (MSgt) David Looney. MSgt Looney is the current ARFF Staff Non-Commissioned Officer in Charge (Assistant ARFF Fire Chief). CWO3 Hensley forwarded MSgt Looney's response to AECOM. MSgt Looney stated that the only use of AFFF he is aware of occurred in 2012 or 2013 during a pit fire evolution in the fire training pit. CWO3 Hensley also stated that he was unaware of any other times AFFF was used.



Ву:	Elizabeth Maurer	Date:	June 21, 2018
Talked with:	Darran Vaughn	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Interview Follow Up
Phone number:			
Distribution:			

Chief Vaughn, the current Fire Department Chief at MCAS Beaufort, was contacted by electronic mail to request additional information about fixed fire suppression systems in the former jet engine test cell (Building 603), and contact information for personnel with knowledge of hangar construction.

Chief Vaughn reported that the former jet engine test cell (Building 603) was not equipped with an AFFF system. He stated that the newer jet engine test cell has an under the wing system with AFFF capabilities, but he is not sure if AFFF was ever installed in the tanks.

Chief Vaughn provided contact information for Mr. Owen Webb as someone who could provide information about the hangars.



Ву:	Elizabeth Maurer	Date:	June 21, 2018
Talked with:	Darran Vaughn	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Interview Follow Up
Phone number:			
Distribution:			

Chief Vaughn, the current Fire Department Chief at MCAS Beaufort, was contacted by electronic mail to request additional information about fire and emergency response at the EOD range.

Chief Vaughn reported that the fire department has responded to several fires on the EOD range. The fires mostly involved grass and wood fires that were caused by detonation of explosives. He stated that no AFFF has been used on the range at any time that he knows of over the last 30 years. He reported that the response plan is for MCAS F&ES to respond and if a magazine is on fire, they will set up a master stream device and flow water onto the bunker. No AFFF is used. He also reported that ARFF will respond in the event that additional manpower is necessary for a larger fire.



Ву:	Elizabeth Maurer	Date:	July 13, 2018
Talked with:	Owen Webb	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-6705		
Distribution:			

Mr. Webb is a current employee of MCAS Beaufort and is currently the Public Works Engineering Director. AECOM spoke with Mr. Webb, at the recommendation of Chief Darran Vaughn, to conduct a telephone interview regarding details about the construction, layout and use of the hangars at MCAS Beaufort. Mr. Webb did not have information regarding AFFF releases at the hangar.

Mr. Webb reported the following information:

- Hangar 728 is set to be demolished in next few months and AFFF is stored in the hangar bay.
- Hangar 729 is an active hangar built around 1958. AFFF is stored in the hangar bay, and operational squadron maintenance occurs here.
- Hangar 414 was built in the early 1950's and used to be two separate hangars (Hangar 414 and 415). The two hangars were bridged in the late 1970's and named Hangar 414.
- Hanger 418 is an active hangar built around 1958. The hangar is a double squadron hangar.
- Hanger 594 is an active hangar built around 1958 and is a double squadron hangar.
- Hanger 1084 is an active hangar built in the late 1980's. The hangar was originally used for non-destructive aircraft investigation using an x-ray booth. It currently houses aircraft and operations include maintenance of the aircraft.
- Hanger 1256 is an active hangar built in the early 2000's and operates as the corrosion control facility. Operations include repainting aircraft and repairing damage to composite structure of aircraft.
- Hanger 2145 is the pilot training building and houses flight simulators.
- Hangar 416 was demolished about 3 years ago and Hanger 3060 was built on the site.
- Hanger 1331 was built in the mid-1990's. The building is used as a hush house, but has not been utilized in a while.

- Hanger 2146 was built about 5 years ago and is the F35 squadron hangar.



Ву:	Elizabeth Maurer	Date:	July 30, 2018
Talked with:	Troy Ward	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-7361		
Distribution:			

Mr. Ward is a current employee of MCAS Beaufort and is currently the Townsend Bombing Range Program Manager. AECOM spoke with Mr. Ward, at the recommendation of Chief Darran Vaughn, to conduct a telephone interview regarding details about fire and emergency response activities at Townsend Bombing Range.

Mr. Ward reported that, to his knowledge, AFFF has not been used at Townsend Bombing Range. He stated that they only use high pressure water in their fire response, and that they do not have any crash trucks onsite, only scrubber trucks are kept onsite.



Ву:	Elizabeth Maurer	Date:	February 12, 2019
Talked with:	Walter McCall	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:			
Distribution:			

Mr. McCall is a current employee of MCAS Beaufort and is currently the Hazardous Materials Manager. He has had this role since September of 2010. AECOM contacted Mr. McCall to conduct a telephone interview because he is the point of contact for the Joint Hazardous Material Minimization Warehouse (Building 1270) which stores small quantities of AFFF in 5-gallon pails.

Mr. McCall stated that Building 1270 has been the Joint Hazardous Minimization Warehouse since 2003 or 2004. He reported that containers of AFFF remain closed for the duration of time that they are stored at Building 1270, and remain unopened through transportation to the place where they will be used. The pails of AFFF are stored on top of pallets. Mr. McCall reported that personnel do daily walkthroughs to inspect all containers stored in the warehouse. He stated that containers are inspected for leaks, bulging, and any other indication that the container is compromised. He has no knowledge of AFFF leaking or spilling in Building 1270.



By:	Elizabeth Maurer	Date:	February 15, 2019
Talked with:	Scott Craft	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-7854		
Distribution:			

AECOM attempted to contact Mr. Joe Otterbine, the former lead fire inspector, who was listed as the point of contact for the Pilot Training Building (Building 2145). However, he no longer works at MCAS Beaufort. Mr. Craft is the current Lead Fire Inspector and was interviewed instead.

Mr. Craft was asked for additional information about Building 2145, which is listed as having AFFF in a fixed fire suppression system storage tank in AFFF storage records. Mr. Craft stated that there is no AFFF in the fixed fire suppression system at Building 2145. He also reported that construction of the building was completed in September 2013. Mr. Craft also stated that he was previously part of the CFR team at MCAS Beaufort. He reported that CFR training involved spraying foam onto the grassy area of the current fire training area. He stated that they stopped training with foam around 2000 to 2003, and now use a green dye during training instead of AFFF.



Ву:	Elizabeth Maurer	Date:	February 28, 2019
Talked with:	Neil Tisdale and Ryan Dunn	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	Follow up PFAS Interview
Phone number:	843-228-6317/843-228-6055		
Distribution:			

Mr. Tisdale was contacted by electronic mail to request additional information about the oil-water separators (OWS) at Wash Rack 953 and Wash Rack 959. Mr. Tisdale forwarded the electronic mail to Mr. Ryan Dunn for confirmation. Mr. Tisdale is the Utilities Director at MCAS Beaufort and Mr. Dunn is an environmental engineer at MCAS Beaufort.

AECOM asked Mr. Tisdale if the OWSs at Wash Racks 953 and 959 are only connected to the wash racks, and if there was any potential for them to receive material/runoff from the hangars and surrounding area. In his response, Mr. Tisdale stated that he believes the OWS at Wash Racks 953 and 959 are only hooked up to the wash racks. Mr. Dunn confirmed this information. Mr. Dunn also stated that each OWS has an on/off valve that prevents releases of storm water into the sanitary sewer when not in use. The OWS valves remain closed when the wash racks are not in use.



Ву:	Elizabeth Maurer	Date:	February 28, 2019
Talked with:	Chris Vaigneur	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Interview Follow up
Phone number:	843-228-6455		
Distribution:			<u> </u>

Mr. Vaigneur, the current Environmental Compliance Supervisor at MCAS Beaufort, was contacted by electronic mail to follow-up about information gained during the interview with Mr. Craft and to request additional information about AFFF storage on site.

During Mr. Craft's interview on February 15, 2019 he stated that the fixed fire suppression system in the pilot training building (Building 2145) is not equipped with AFFF. However, in the AFFF inventory records provided by Mr. Vaigneur on May 22, 2018, Building 2145 is listed as having AFFF in an above ground storage tank. In the electronic mail correspondence exchanged on February 28, 2019, Mr. Vaigneur confirmed that Building 2145 does not have an AST with AFFF, and it's inclusion on the AFFF inventory is an error. The AFFF inventory should have included Building 2146 (VMFAT-501/F-35 Hangar), not Building 2145.

Mr. Vaigneur provided information about the filling and emptying practices at Hazardous Waste Storage Tank 979. Tank 979 is loaded and unloaded using a vacuum truck. The truck and tank are connected via hose and cam lock fittings. The vacuum truck has spill supplies onboard and portable secondary containment is placed under the hose connections during filling and emptying. Mr. Vaigneur stated that there are no reported spills in this area.

Mr. Vaigneur provided additional information about the twin agent units (TAUs) that are used for fire suppression. TAUs are portable units with both AFFF and PKP fire suppression agents. There are five TAUs at MCAS Beaufort: three are stationed at Building 1171 (MWSD-31 Fuels); and two are stationed at Building 1313 (ARFF Station).

Mr. Vaigneur provided additional information about AFFF storage at the Hazardous Waste Storage Facility. He reported that AFFF has been stored in the Non-Regulated Waste Storage Area (Building 1205). He stated that Pure AFFF, AFFF rinsate and AFFF contaminated solids have been, and currently are, stored at the facility. Mr. Vaigneur stated that there are no reported spills in this area.



Ву:	Elizabeth Maurer	Date:	March 1, 2019
Talked with:	Craig Ehde	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	Email Correspondence
Phone number:	843-228-7313		Regarding 2019 AFFF Release
Distribution:			

Mr. Ehde, the current Installation Restoration/UST Manager at MCAS Beaufort, contacted AECOM via electronic mail to report that an additional on-base release of AFFF occurred during a fire response. The electronic mail included an electronic mail correspondence dated March 1, 2019 from Mr. Vaigneur to Mr. Ehde, a photo of the fire response area, and a file containing the coordinates of the fire response area. The correspondence from Mr. Vaigneur to Mr. Ehde stated that ARFF Marines were returning from training at Parris Island and came across a Beaufort County deputy fighting a brush fire using a fire extinguisher. Mr. Vaigneur reports that ARFF Marines used a twin agent unit mounted to the Humvee to put out the fire, and they estimate that 20 gallons of old MILSPEC AFFF/PKP were used. Mr. Vaigneur provided the contact information for ARFF if further details were necessary.



Ву:	Elizabeth Maurer	Date:	March 5, 2019
Talked with:	Staff Sergeant Matthew Tinsley	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	Interview Regarding the 2019
Phone number:	843-228-7395		AFFF Release
Distribution:			

Following the receipt of Mr. Ehde's information about the February 2019 AFFF release, AECOM contacted ARFF to gather additional details about the incident. Staff Sergeant Matthew Tinsley, the current ARFF Admin Chief at MCAS Beaufort, is the person who oversees the crew that responded to the fire, but was not present at the time of the incident. Staff Sergeant Tinsley confirmed that the information provided in the email from Mr. Ehde was correct. Staff Sergeant Tinsley stated that he could provide the fire response narrative that was prepared for the incident, and emailed the narrative to AECOM on March 5, 2019.

The fire response narrative was prepared by Burton Fire District Station 81. The incident took place at 3481 Trask Parkway, Beaufort, South Carolina 29906 (N 32° 27' 8.07", W 80° 43' 53.52") on February 22, 2019, at approximately 14:10. The incident was a brush fire and the cause of ignition was undetermined after investigation. The fire response narrative states that Engine 81, Battalion 81 and Beaufort City Engine 4 were dispatched to the brush fire. When Battalion 81 arrived on the scene, an MCAS Humvee was on scene extinguishing the fire with the help of a South Carolina State Trooper. Engine 81 also arrived at the scene. The fire was extinguished by the MCAS Humvee as the Burton Fire District units (Battalion 81 and Engine 81) arrived on the scene. Prior to leaving the scene, Engine 81 ensured that the fire was fully extinguished.



Ву:	Elizabeth Maurer	Date:	March 6, 2019
Talked with:	GySgt Wesley Barker	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-6289		
Distribution:			

AECOM made attempts via telephone and electronic mail to contact Sergeant Timothy Sunday, who was listed as the point of contact for Buildings 262 and 612. Both buildings are listed as storage locations for 5-gallon pails of AFFF. AECOM spoke with Gunnery Sergeant (GySgt) Wesley Barker via telephone who stated that Sergeant Sunday retired approximately one year ago and was replaced by Sergeant Cornejo, who is currently on leave. GySgt Barker is a current employee of MCAS Beaufort and is currently the Material Chief for ARFF. He stated that he was knowledgeable of the storage locations and AFFF use as it is related to ARFF operations.

GySgt Barker provided additional information about the storage practices at Buildings 262 and 612. He reported that containers of AFFF remain closed for the duration of time that they are stored at Buildings 262 and 612, and remain unopened through transportation to the place where they will be used. The pails of AFFF are stored on top of pallets. GySgt Barker reported that personnel are in the buildings daily and regularly inspect the area. He has no knowledge of AFFF leaking or spilling in Buildings 262 and 612.

GySgt Barker reported that to his knowledge the only use of AFFF was during an off-base F-35 incident in September 2018. He stated that the incident was a crash response and that they reported the use of AFFF through the appropriate channels, including NREAO.

GySgt Barker stated that ARFF trucks are resupplied with AFFF at the training area. Trucks are resupplied through a reservoir on top of the truck. AFFF containers are turned upside down and pierced by a fixed blade in the reservoir to open the AFFF container. Trucks are parked at the ARFF station when not in use, and the trucks are washed at the ARFF station. GySgt Barker did not have any additional information to provide about AFFF use, storage or releases.



Ву:	Elizabeth Maurer	Date:	March 13, 2019
Talked with:	Customer Service (Pam Flash)	Project number:	60563666
From (company):	BJSWA	Subject:	Water Supply Well Inventory
Phone number:	843-987-9200		
Distribution:			
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AECOM contacted Beaufort Jasper Water and Sewer Authority (BJWSA) customer service to verify that addresses with a water supply well on the property had an active water account. BJWSA confirmed that the following properties located in Beaufort, South Carolina have active water accounts:

- All properties on Grays Hills Acres Road;
- 2749 Trask Parkway;
- all properties on Salt Creek Drive;
- all properties on Craig Lane;
- all properties on Chris Lane;
- all properties on Shannon Lane;
- all properties on Sandhill Drive;
- all properties on Tammy Lane;
- all properties on Eastern Road; and
- all properties on Ice House Road.



Ву:	Elizabeth Maurer	Date:	March 15, 2019
Talked with:	Sergeant Alexander	Project number:	60563666
From (company):	MCAS Beaufort	Subject:	PFAS Assessment Questionnaire
Phone number:	843-228-9043		
Distribution:			

Sergeant (Sgt) Alexander is a current MCAS Beaufort employee and is currently the Safety/Environmental Representative for the EOD Range. AECOM contacted Sgt. Alexander at the recommendation of the MCAS Beaufort communications office. Sgt Alexander was asked about fire and emergency response at the EOD range.

Sgt Alexander reported that the fires at the EOD Range mostly involve grass and wood fires that were caused by detonation of explosives. He stated that, to his knowledge, no AFFF has been used on the EOD range. He reported that the response plan is for MCAS F&ES to respond and if a magazine is on fire, they will set up a master stream device and flow water onto the bunker. No AFFF is used. He also reported that the EOD Range goes over the fire response with the Fire Department to maintain a consistent response, and he stated that the Fire Chief explicitly stated that no AFFF should be used in any fire response at the EOD Range.